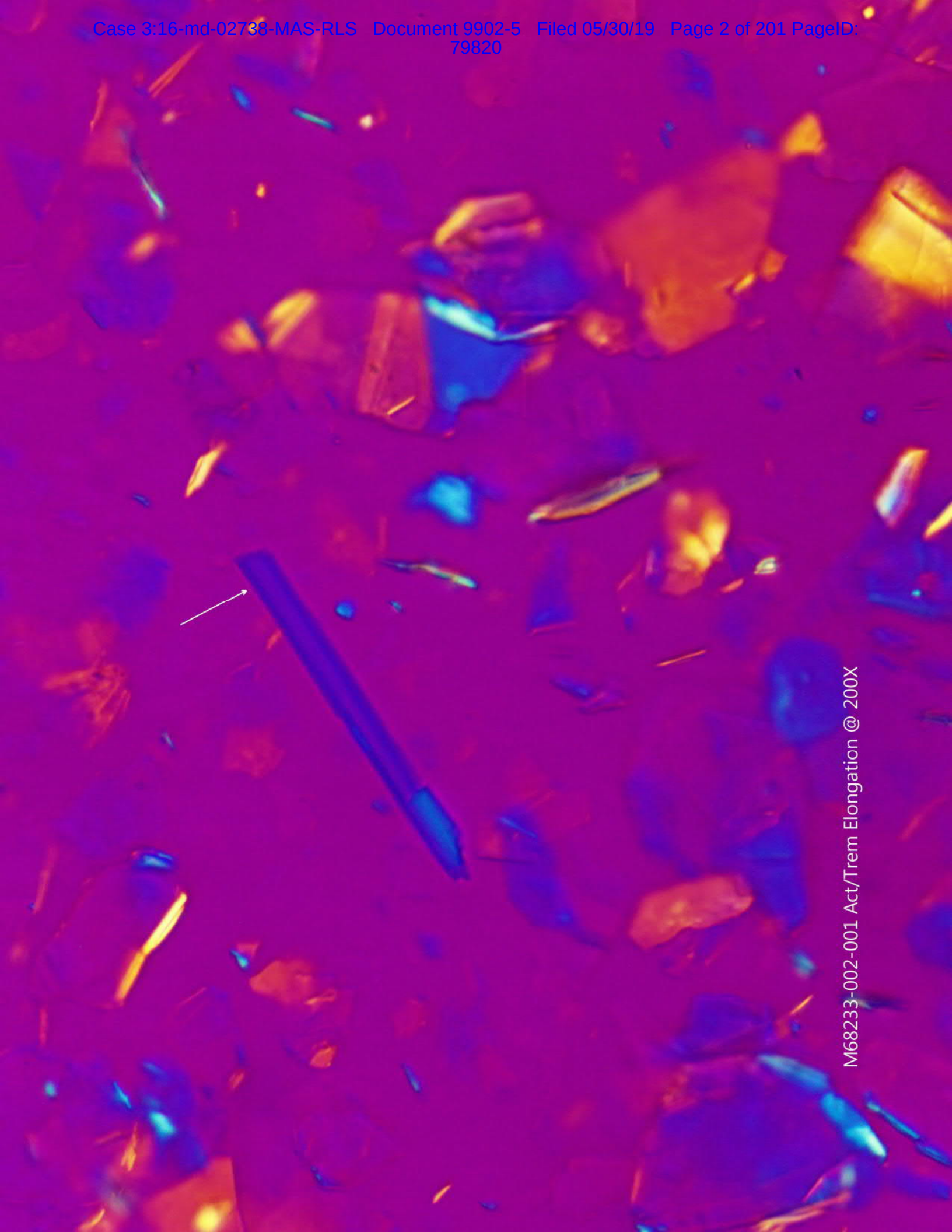
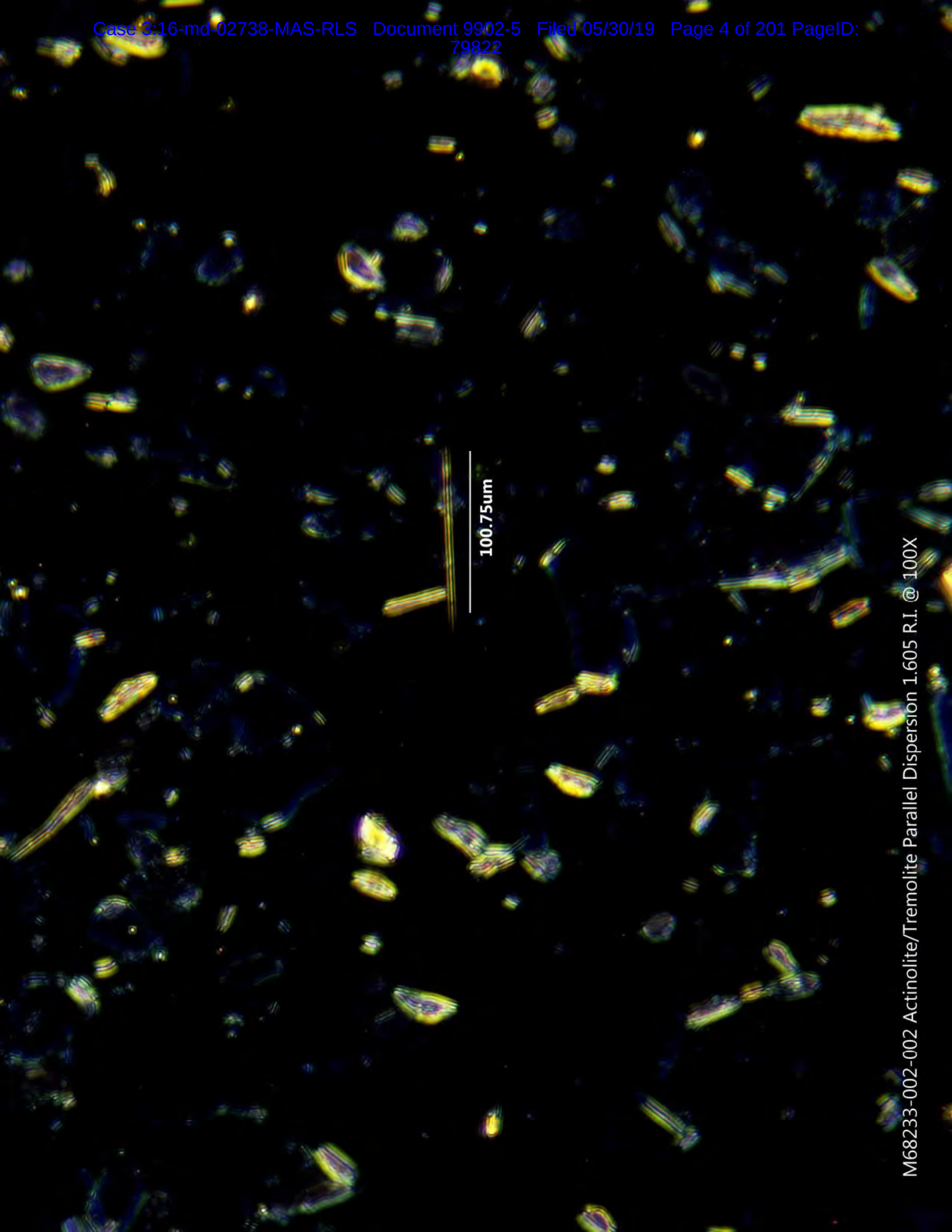


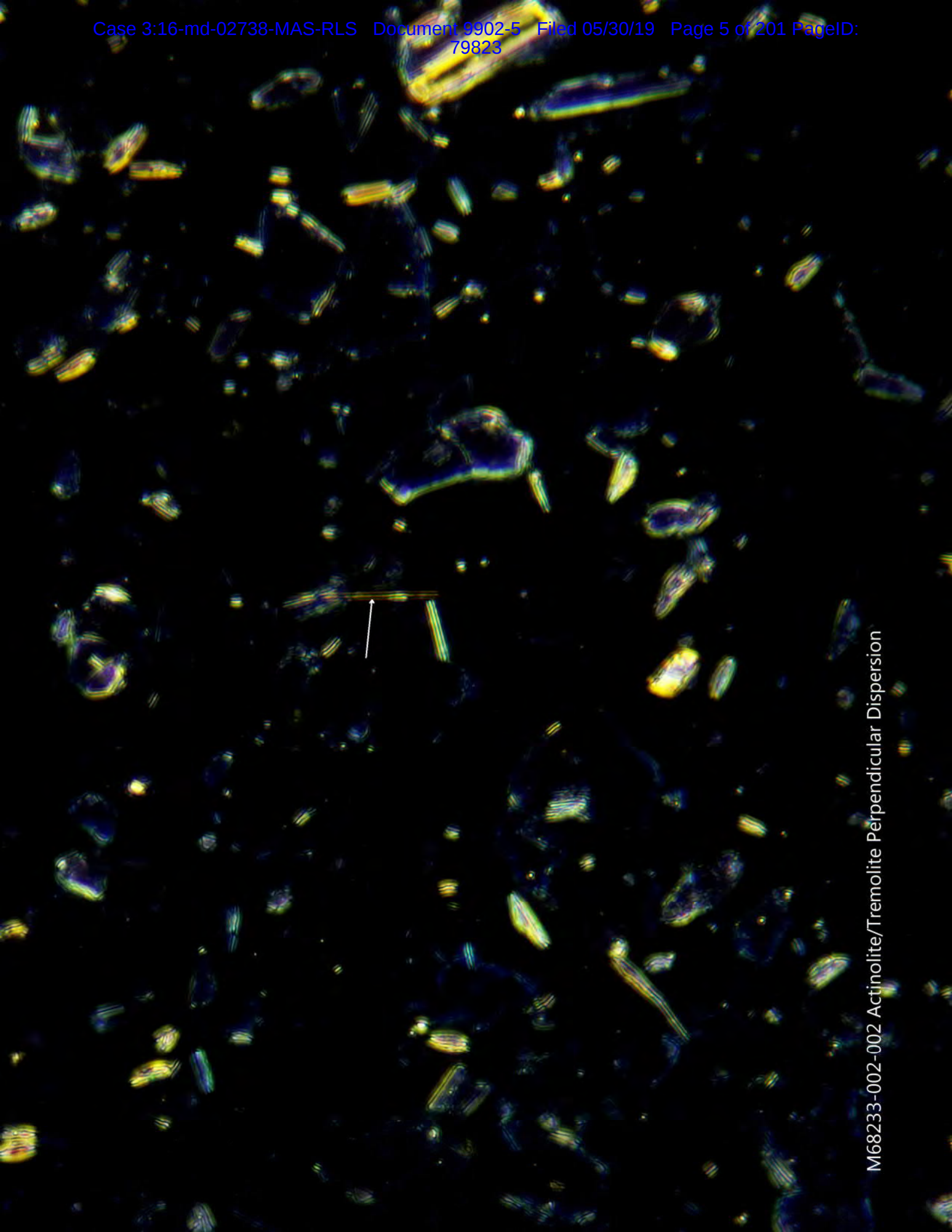
Exhibit 67-F



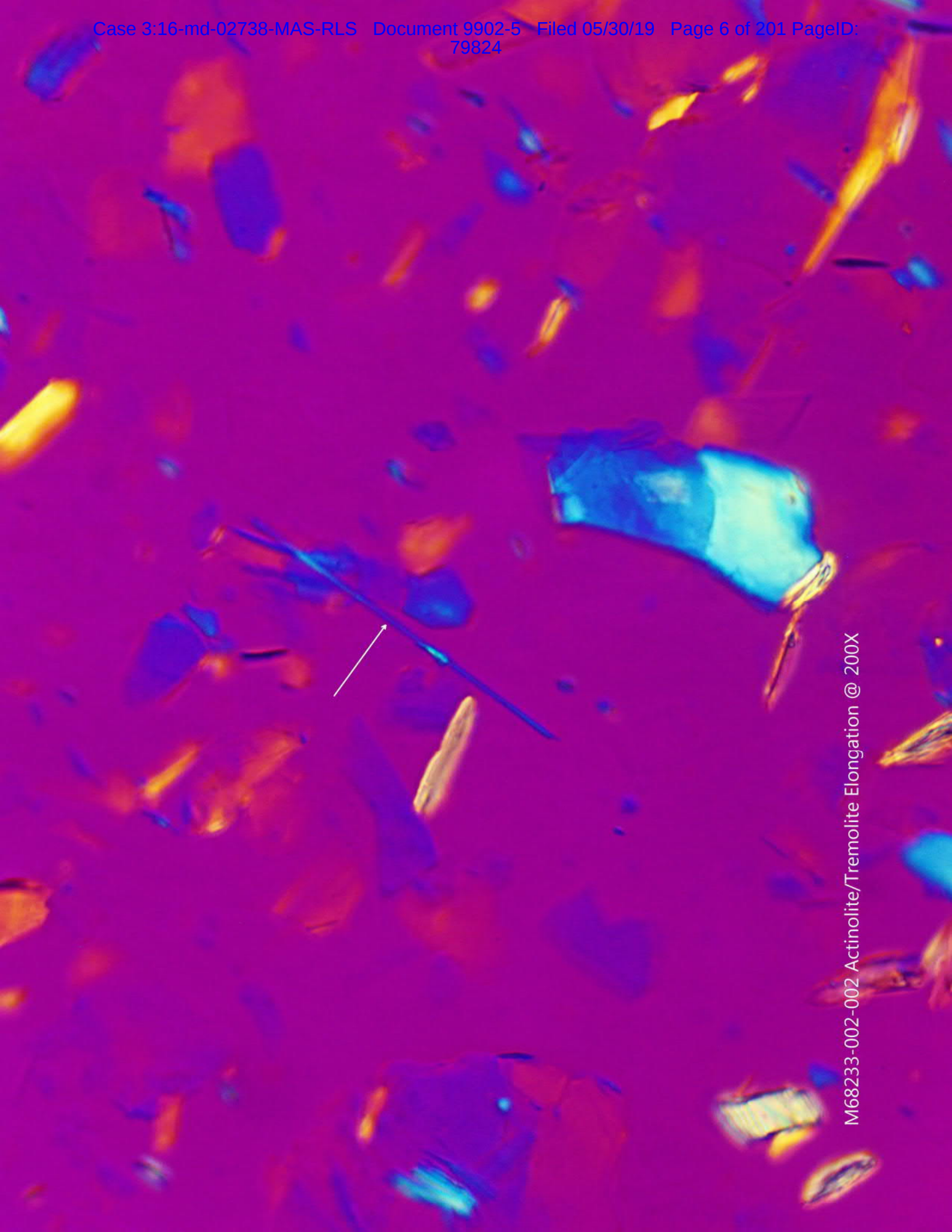
M68233-002-001 Act/Trem Elongation @ 200X



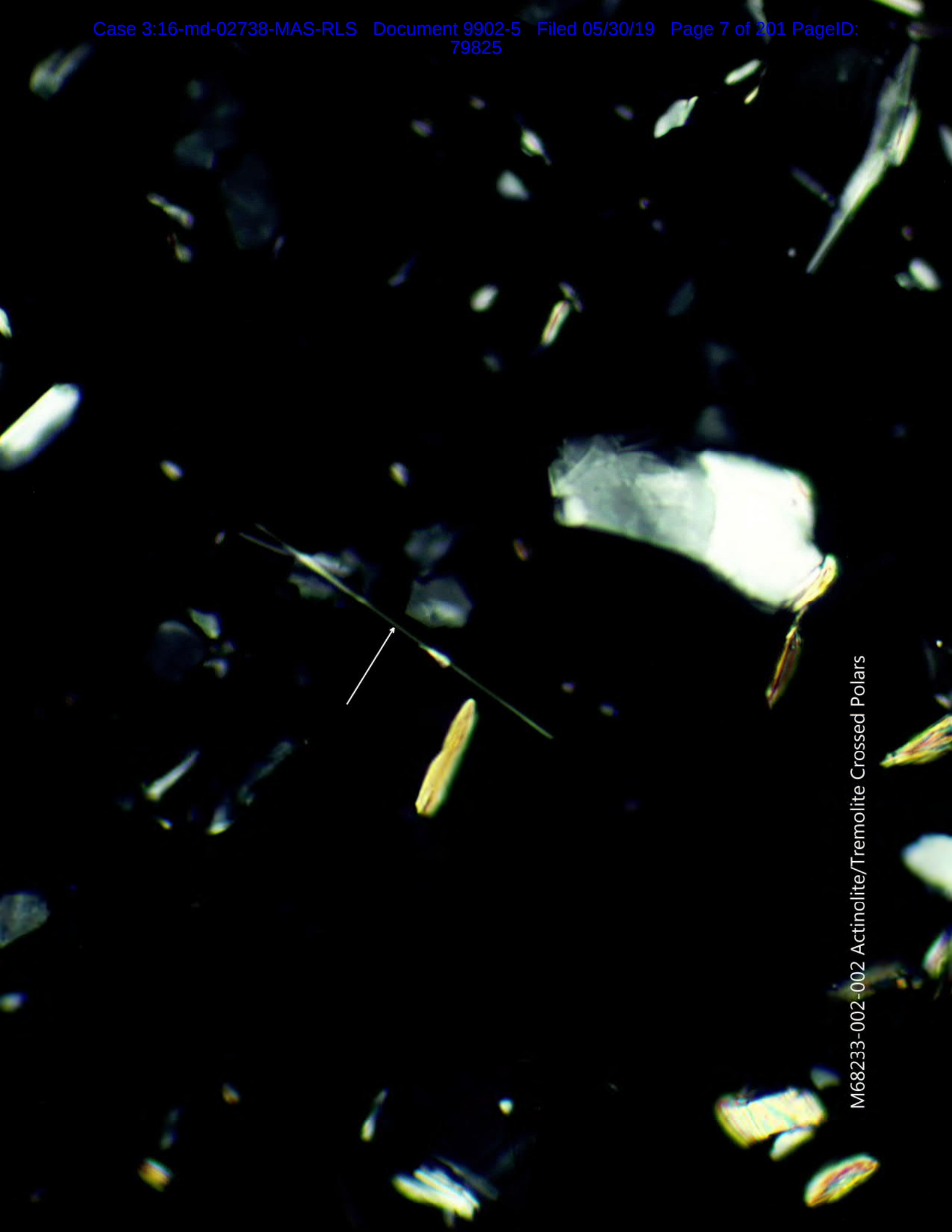
100.75um



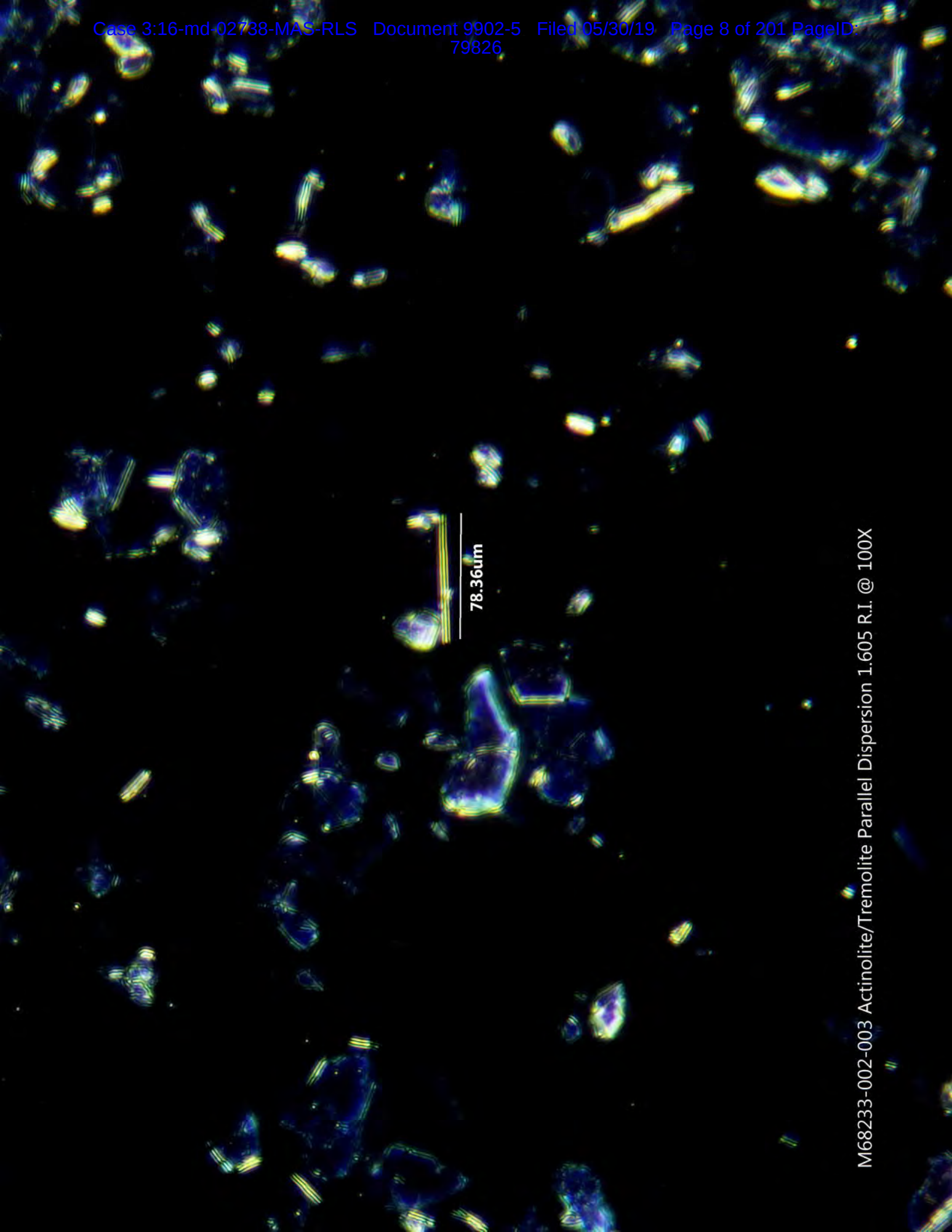
M68233-002-002 Actinolite/Tremolite Perpendicular Dispersion



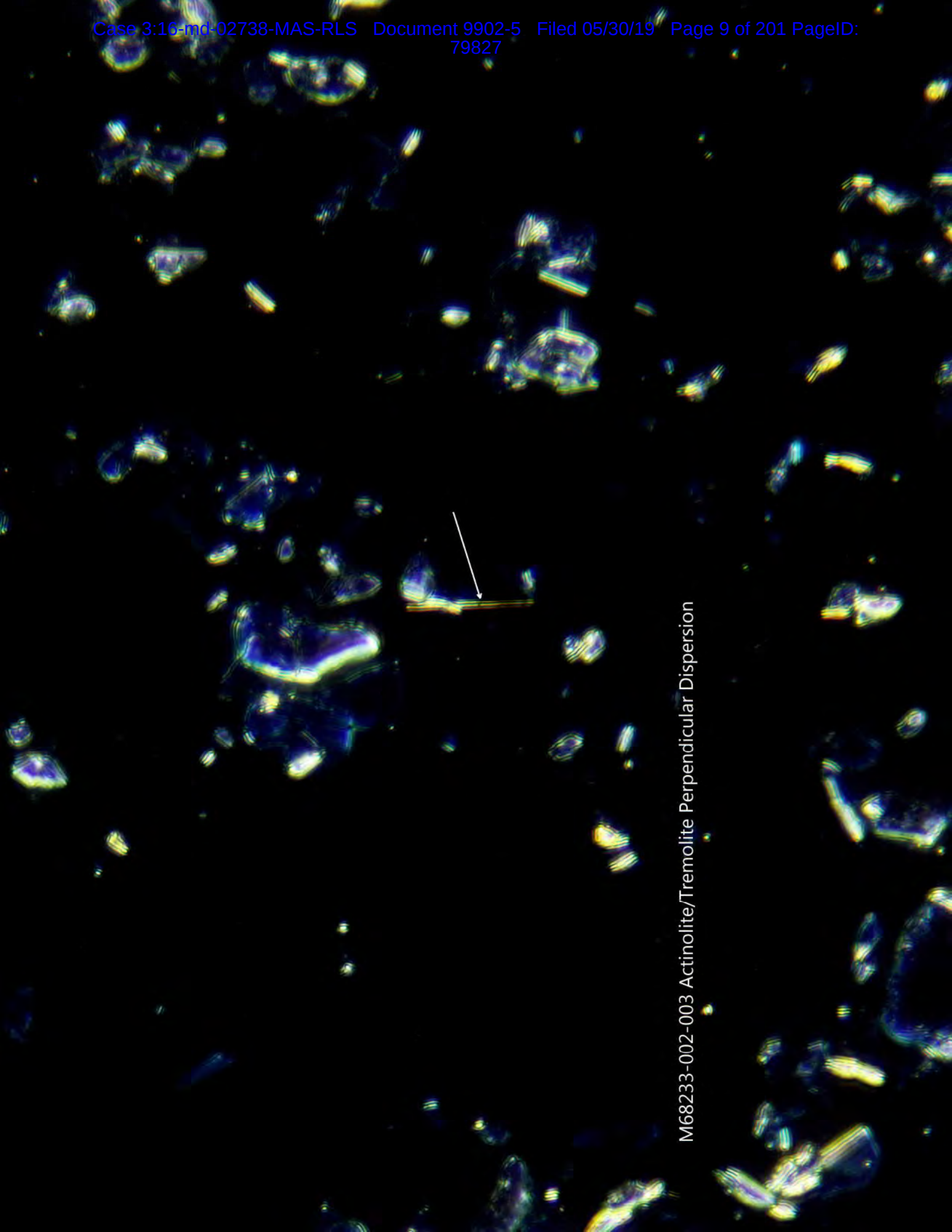
M68233-002-002 Actinolite/Tremolite Elongation @ 200X



M68233-002-002 Actinolite/Tremolite Crossed Polars



M68233-002-003 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



M68233-002-003 Actinolite/Tremolite Perpendicular Dispersion

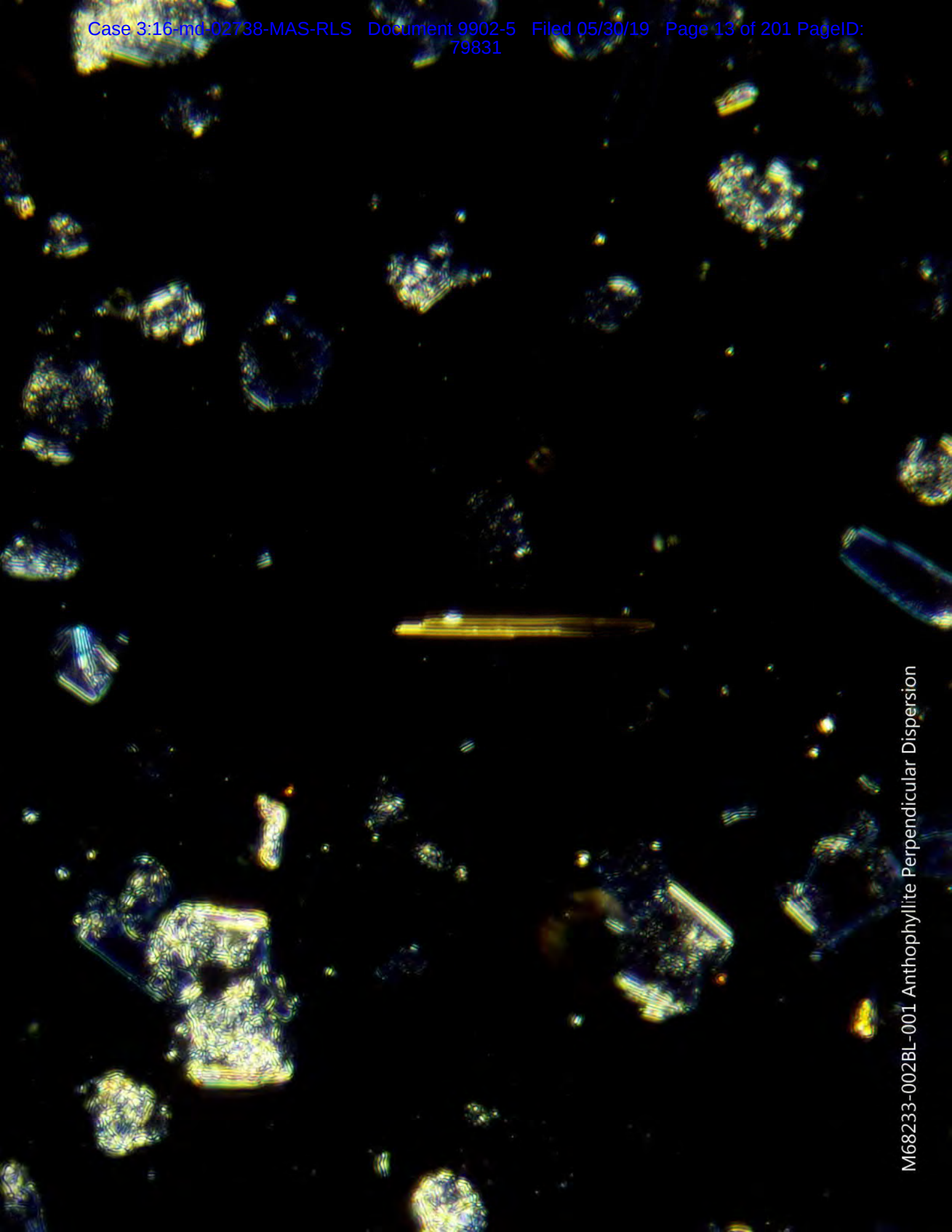


M68233-002-003 Actinolite/Tremolite Elongation @ 200X



M68233-002-003 Actinolite/Tremolite Crossed Polars







TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68233-002		Grid Box #	8584	No. of Grids Counted	2
Analyst:	Anthony Keeton			Length	Width	G. O. Area
Date of Analysis	2/14/2018 - 2/15/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.0248			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
	A5-B1							
	B2							
	B3							
	B4							
	B5							
	B6							
	C1							
	C2							
	C3							
	C4							
	C5							
	C6							
	C7							
	C8							
	C9							
	D1							
	D2							
	D3							
1	D4	Bundle	Anthophyllite	25.7	0.7	36.7	X	X
	D5							
	D6							
	D7							
	D8							
	F1							
	F2							
2	F3	Bundle	Anthophyllite	16.4	2.6	6.3	X	X
	F4							
3	F5	Fiber	Anthophyllite	7.6	0.5	15.2	X	X
	F6							
	F7							
	F8							
	G1							
	G2							
	G3							
	G4							
	G5							
	H1							
	H2							
	H3							
	H4							
	H5							
	I1							
	I2							
	I3							
	I4							
	I5							
	I6							
	I7							
	J6							
	J7							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68233-002		Grid Box #	8584	No. of Grids Counted	2
Analyst:	Anthony Keeton			Length	Width	G. O. Area
Date of Analysis	2/14/2018 - 2/15/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.0248			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
	B5-A1							
	A2							
	A3							
	A4							
	A5							
	A6							
	A7							
	A8							
	A9							
	B1							
	B3							
	B4							
	B5							
	B6							
	B7							
	B8							
	B9							
	C3							
	C4							
	C5							
	C6							
	C7							
	C8							
	C9							
	C10							
	D3							
	D4							
	D5							
	D6							
	D7							
	D8							
	D9							
	D10							
	G1							
	G2							
	G3							
	G4							
	G5							
	G6							
	G7							
	G8							
	G9							
	G10							
	H4							
	H5							
	H6							
	H7							
	H8							
	H9							
	H10							

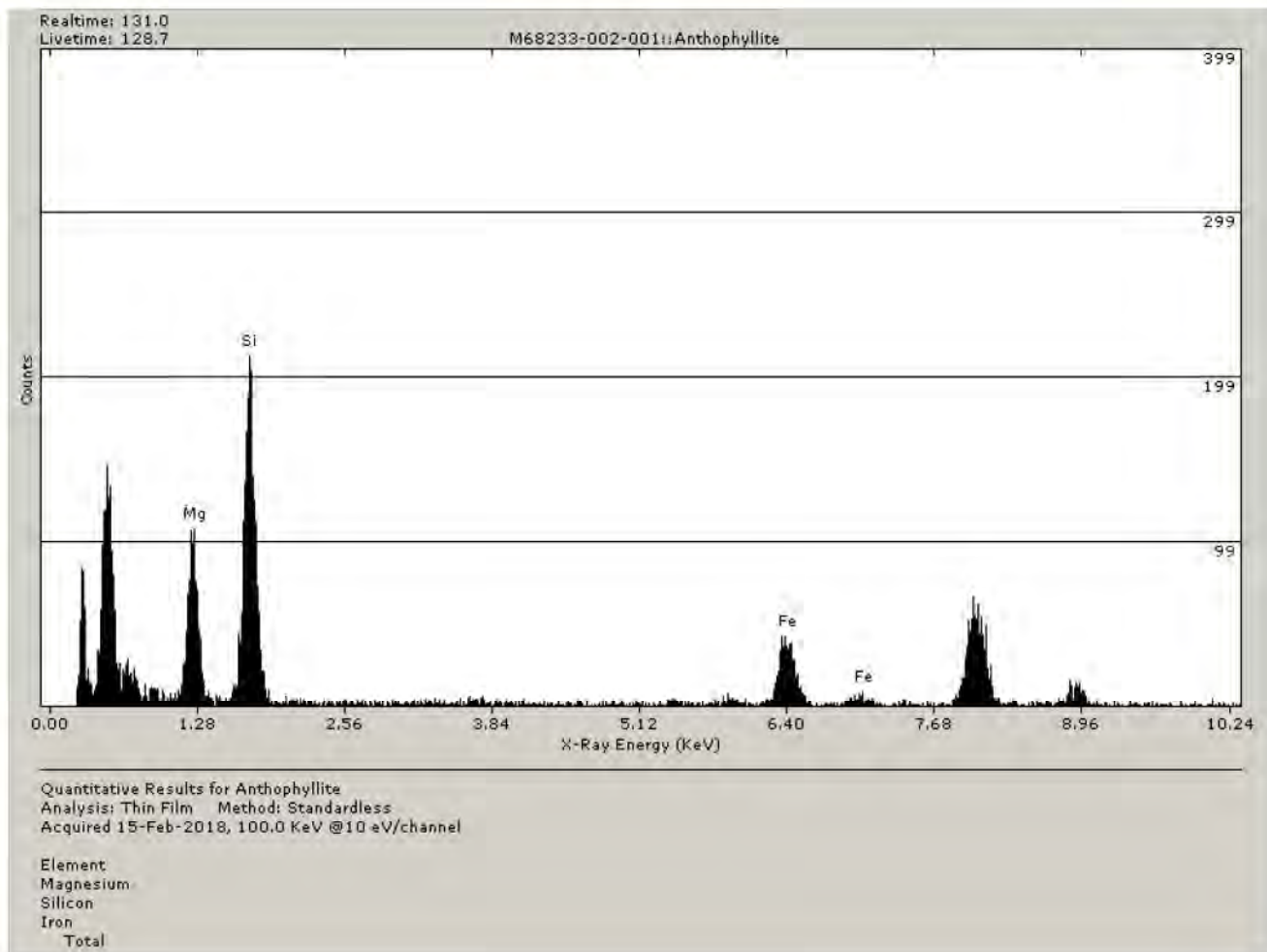
TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68233-002		Grid Box #	8584	No. of Grids Counted	2
Analyst:	Anthony Keeton			Length	Width	G. O. Area
Date of Analysis	2/14/2018 - 2/15/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.0248			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

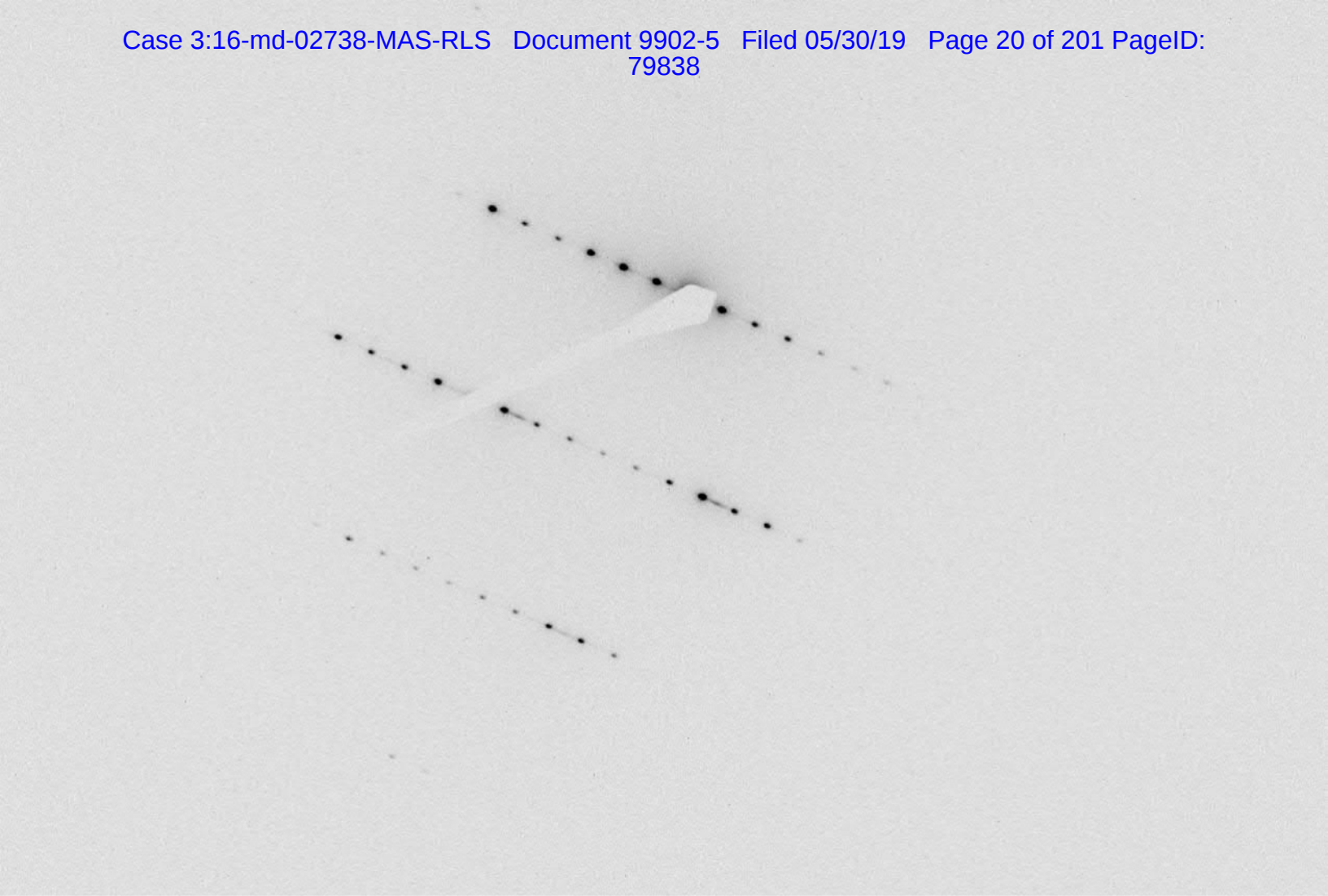
Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
--------	--------------	-----------	------------------	--------	-------	-------	------	-----

Org. Sample Wt.	Sample Wt. Post HL Separation
0.02480	0.02480 g
Percent of Orig. Post Separation	100 (%)

Wt. Of Sample Analyzed	0.00013596 g
Filter size	201.1 mm ²
Number of Structures Counted	3 Str.
Structures per Gram of Sample	2.21E+04 Str./g

Detection Limit	7.35E+03 Str./g
Analytical Sensitivity	7.35E+03 Str./g

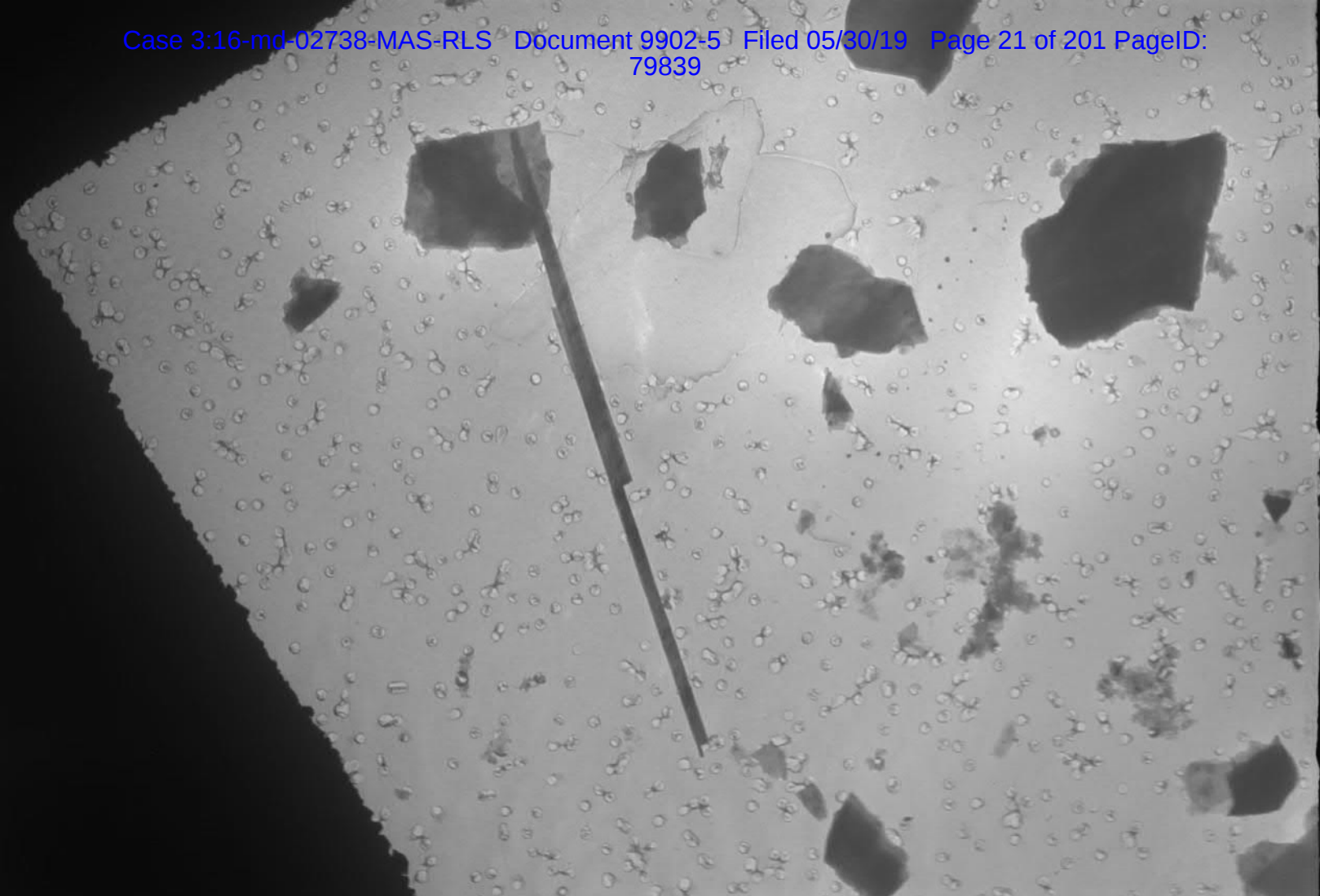




2 2685

M68233-002-001 Anthophyllite Diffraction @ 50cm

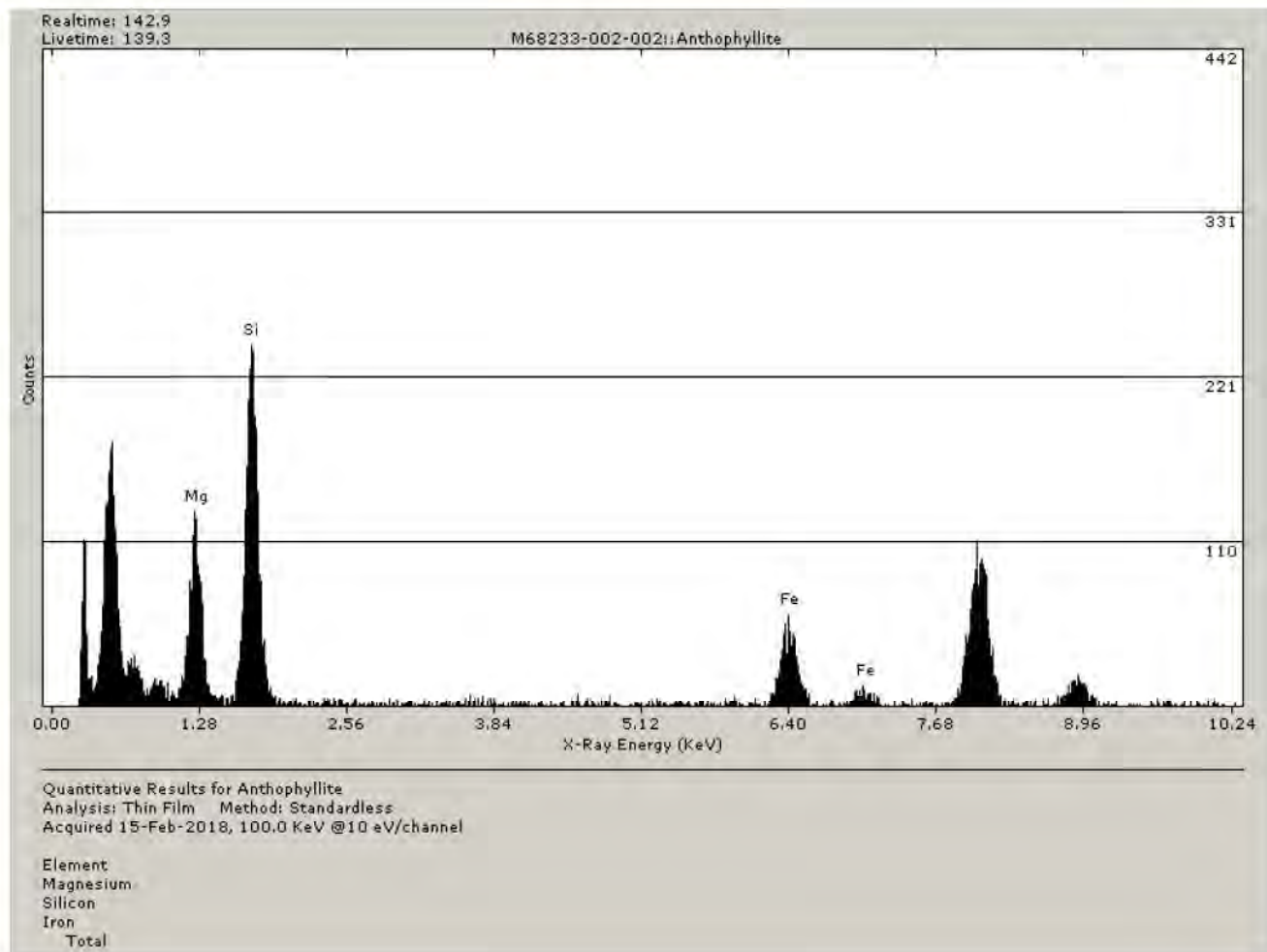
2/15/2018



2 2687

M68233-002-001 Anthophyllite (25.7 μm x 0.7 μm)

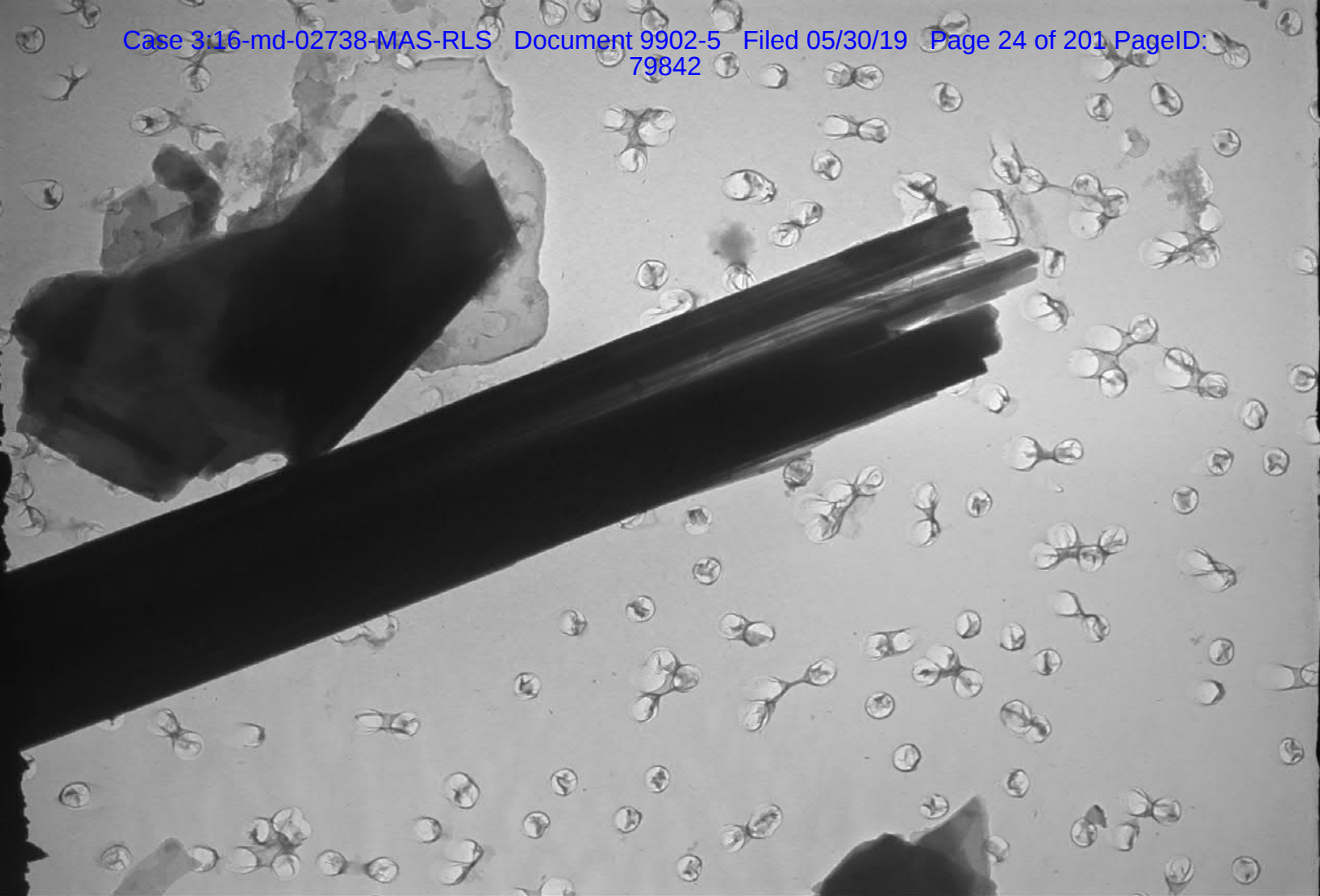
2/15/2018



2 2691

M68233-002-002 Anthophyllite Diffraction @ 50cm

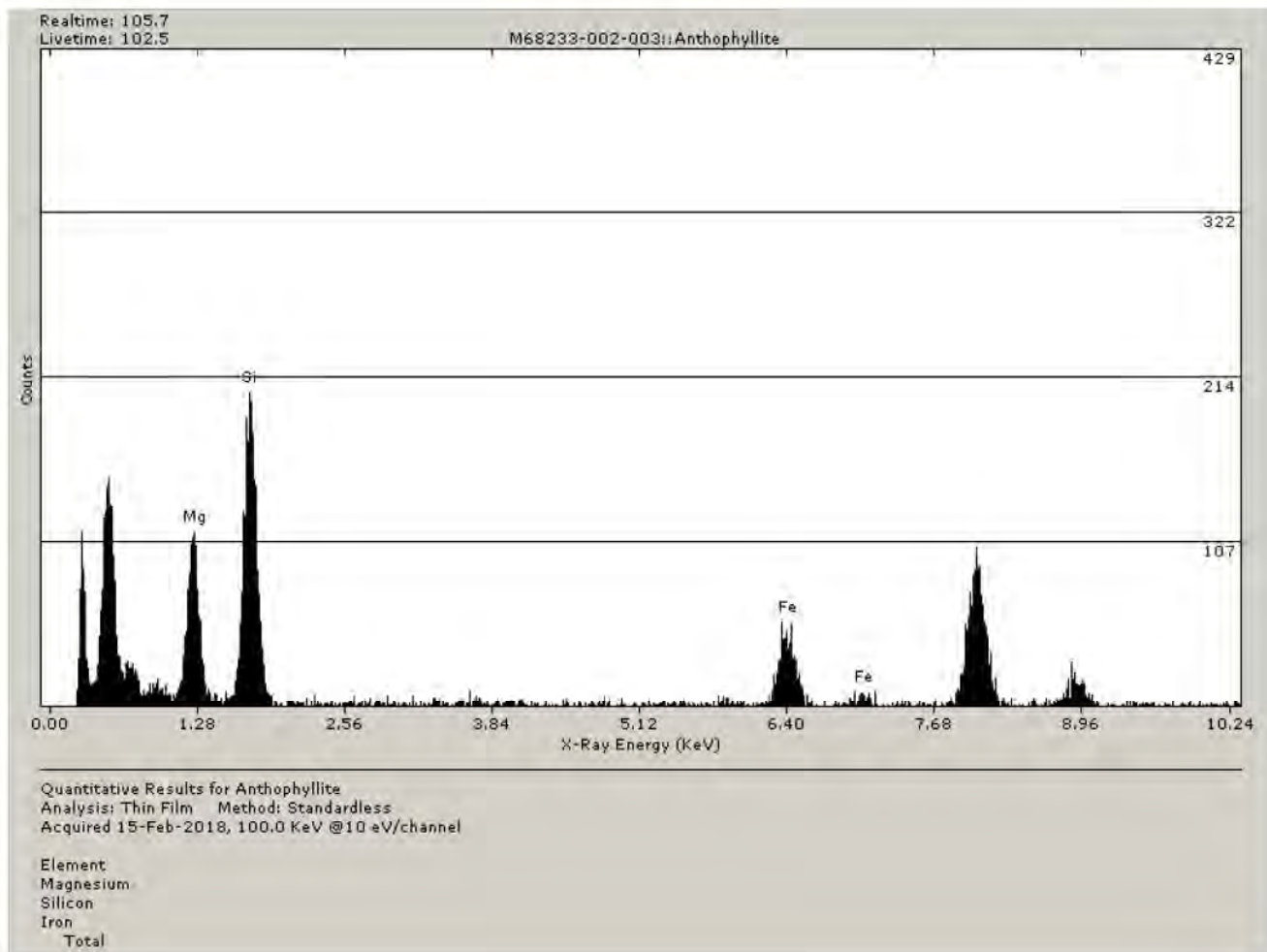
2/15/2018

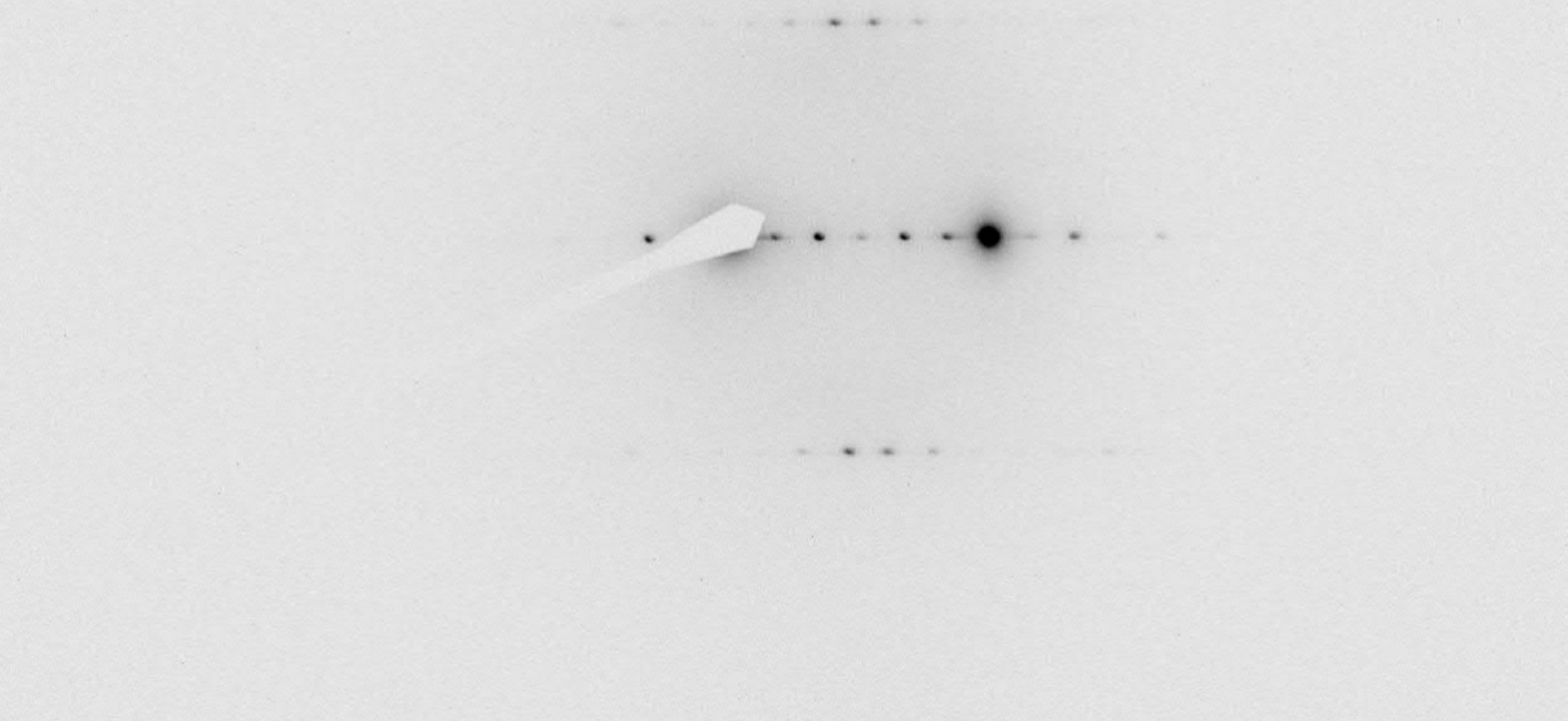


2 2692

M68233-002-002 Anthophyllite (16.4 um x 2.6 um)

2/15/2018

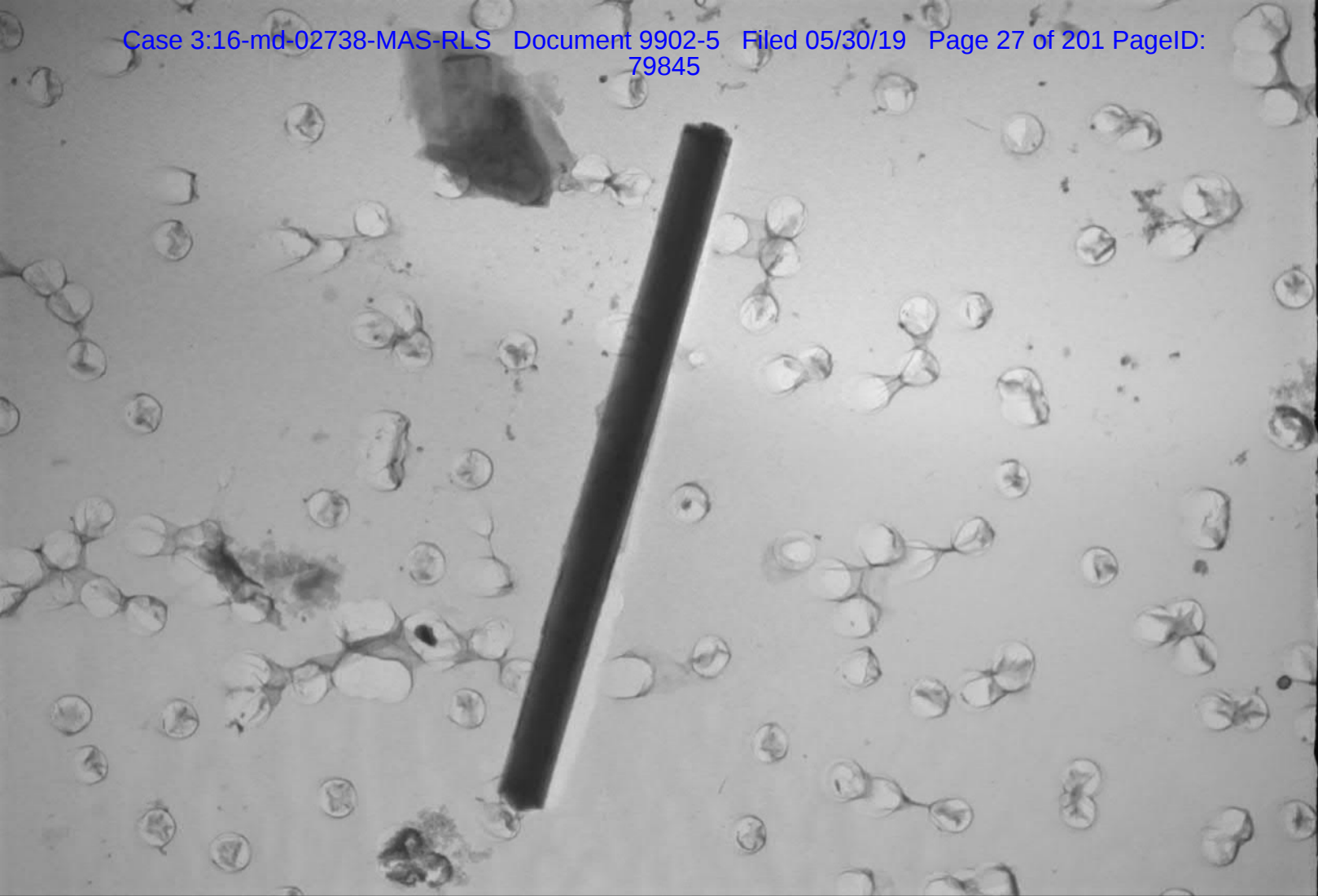




2 2698

M68233-002-003 Anthophyllite Diffraction @ 50cm

2/15/2018



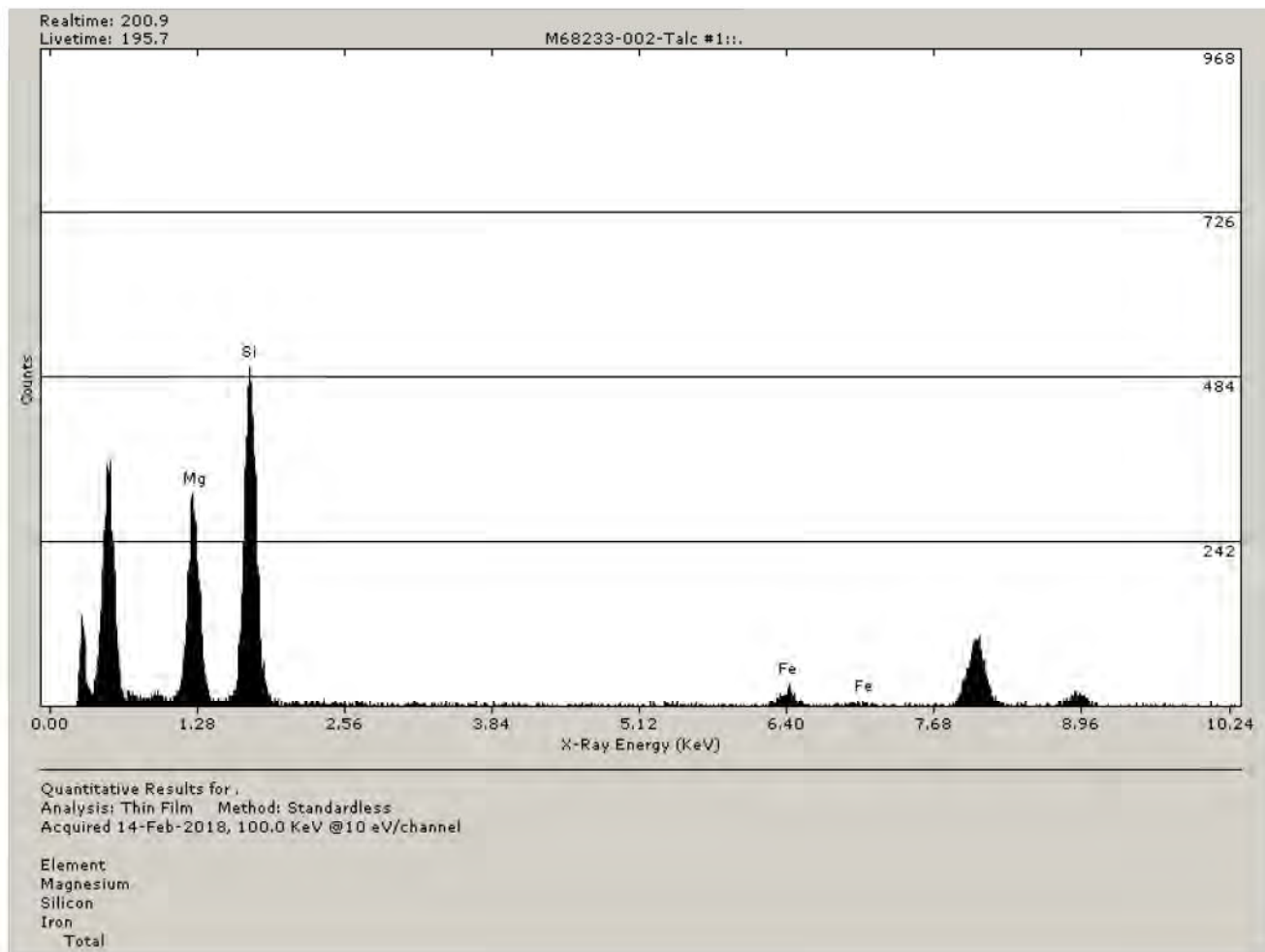
2 2695

M68233-002-003 Anthophyllite (7.6 um x 0.5 um)

2/15/2018

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68233-002		Grid Box #	8584	No. of Grids Counted	2
Analyst:	Anthony Keeton			Length	Width	G.O. Area
Date of Analysis	2/14/2018 - 2/15/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.02480			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

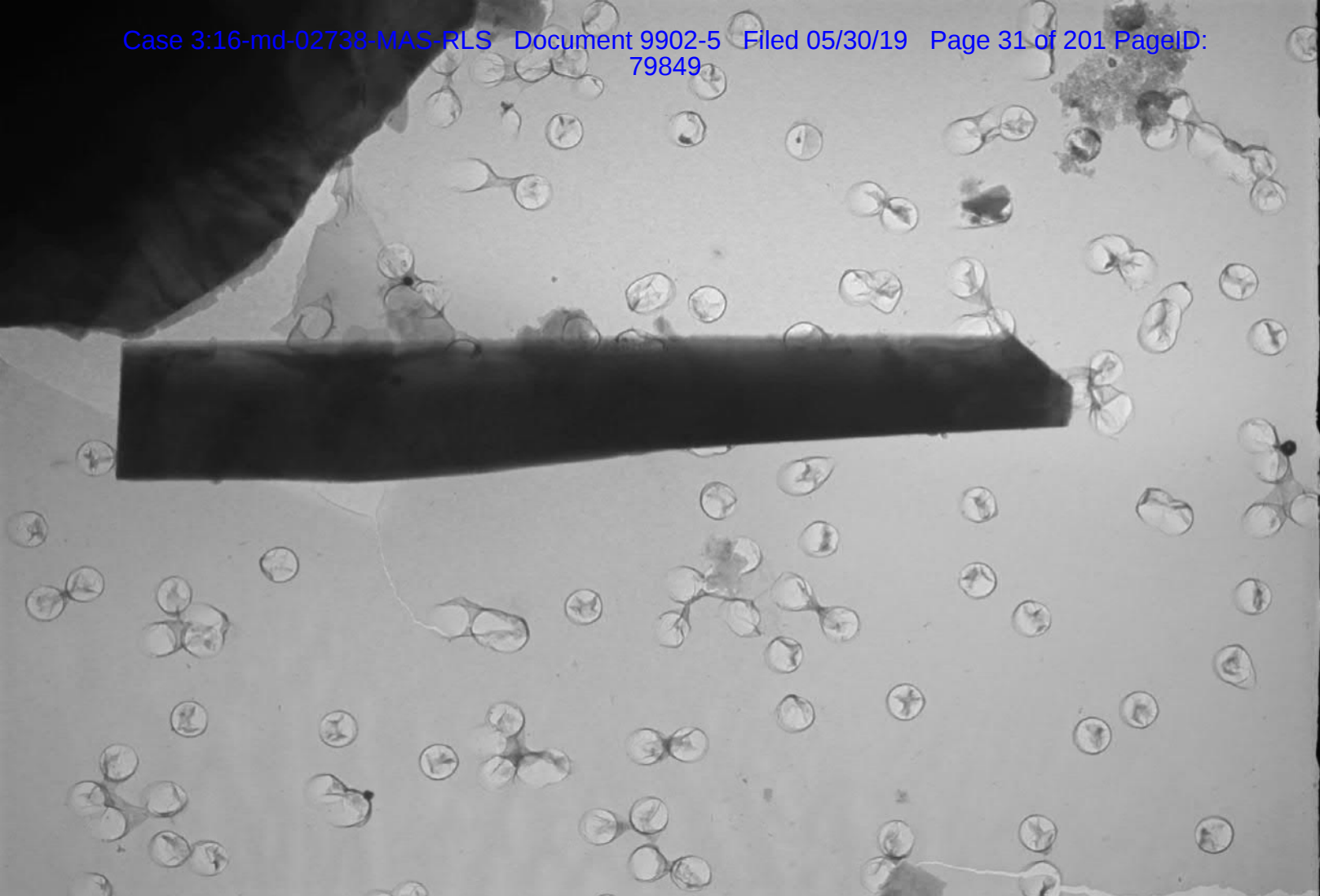
Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	D5-B9	Fibrous Talc	11	1.3	8.5	Fibrous Talc Observed Trace throughout	



2 2684

M68233-002-Talc #1 Diffraction @ 50cm

2/14/2018



2 2682

M68233-002-Talc #1 (11.0 um x 1.3 um)

2/14/2018

Section 13

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503 - 046ISO **Analyst** Paul Hess **Date** 10/28/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0061-57A
Location _____
Type_Mat Shower to Shower Deodorant Body Powder with Baking Soda
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opagues
 Talc
 Mineral grains

X
 X
 X

Binder Description _____

Comments X = Materials detected. *** Trace amount of fibrous Talc observed.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503 - 046BL1 **Analyst** Paul Hess **Date** 10/22/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0061-57A
Location _____
Type_Mat Shower to Shower Deodorant Body Powder with Baking Soda (100mg prep)
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

NON FIBROUS COMPONENTS

 Opaques _____ X
 Talc _____ X
 Mineral grains _____ X

Binder Description _____

Comments X = Materials detected.

The method detection limit is 1% unless otherwise stated.

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-046		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	11/1/2018 - 11/2/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.03111			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	D7-A1							
NSD	A2							
NSD	A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	A10							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-046		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	11/1/2018 - 11/2/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.03111			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	D6-A1							
NSD	A2							
NSD	A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	A10							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-046		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	11/1/2018 - 11/2/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.03111			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
--------	--------------	-----------	------------------	--------	-------	-------	------	-----

Org. Sample Wt.	Sample Wt. Post HL Separation
0.03111	0.03111 g
Percent of Orig. Post Separation	100 (%)

Wt. Of Sample Analyzed	0.00017056 g
Filter size	201.1 mm ²
Number of Structures Counted	0 Str.
Structures per Gram of Sample	<5863 Str./g

Detection Limit	5.86E+03 Str./g
Analytical Sensitivity	5.86E+03 Str./g

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-046		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G.O. Area
Date of Analysis	11/1/2018 - 11/2/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.03111			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
NSD	D7-A1					No Fibrous talc observed	

Section 14

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503 - 042ISO **Analyst** Paul Hess **Date** 10/29/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0061-49A
Location _____
Type_Mat Herbal Shower to Shower Deodorant Body Powder with Baking Soda
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight	straight	
Pleochroism	none	none	
Refract Index	1635/1.620	1.623/1.609	
Sign^	positive	positive	
Extinction	oblique	parallel	
Birefringence	medium	medium	
Melt	no	no	
Fiber Name	Actinolite/Tremolite	Anthophyllite	

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....	_____
Amosite.....	_____
Crocidolite.....	_____
Tremolite/Actinolite.....	< 0.1
Anthophyllite.....	< 0.1

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55	***
_____	_____
_____	_____
_____	_____
_____	_____

NON FIBROUS COMPONENTS

Opagues	X
Talc	X
Mineral grains	X
_____	_____

Binder Description _____

Comments Actinolite/Tremolite and Anthophyllite asbestos observed. Actinolite/Tremolite cleavage fragments/particles exhibiting <3-1 width to length ratio observed. *** Trace fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503 - 042BL1 **Analyst** Paul Hess **Date** 10/23/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0061-49A
Location _____
Type_Mat Herbal Shower to Shower Deodorant Body Powder with Baking Soda (100mg prep)
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	<u>straight</u>		
Pleochroism	<u>none</u>		
Refract Index	<u>1.635/1.620</u>		
Sign^	<u>positive</u>		
Extinction	<u>oblique</u>		
Birefringence	<u>medium</u>		
Melt	<u>no</u>		
Fiber Name	<u>Actinolite/Tremolite</u>		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite..... <0.1
Anthophyllite.....

OTHER FIBROUS COMPONENTS

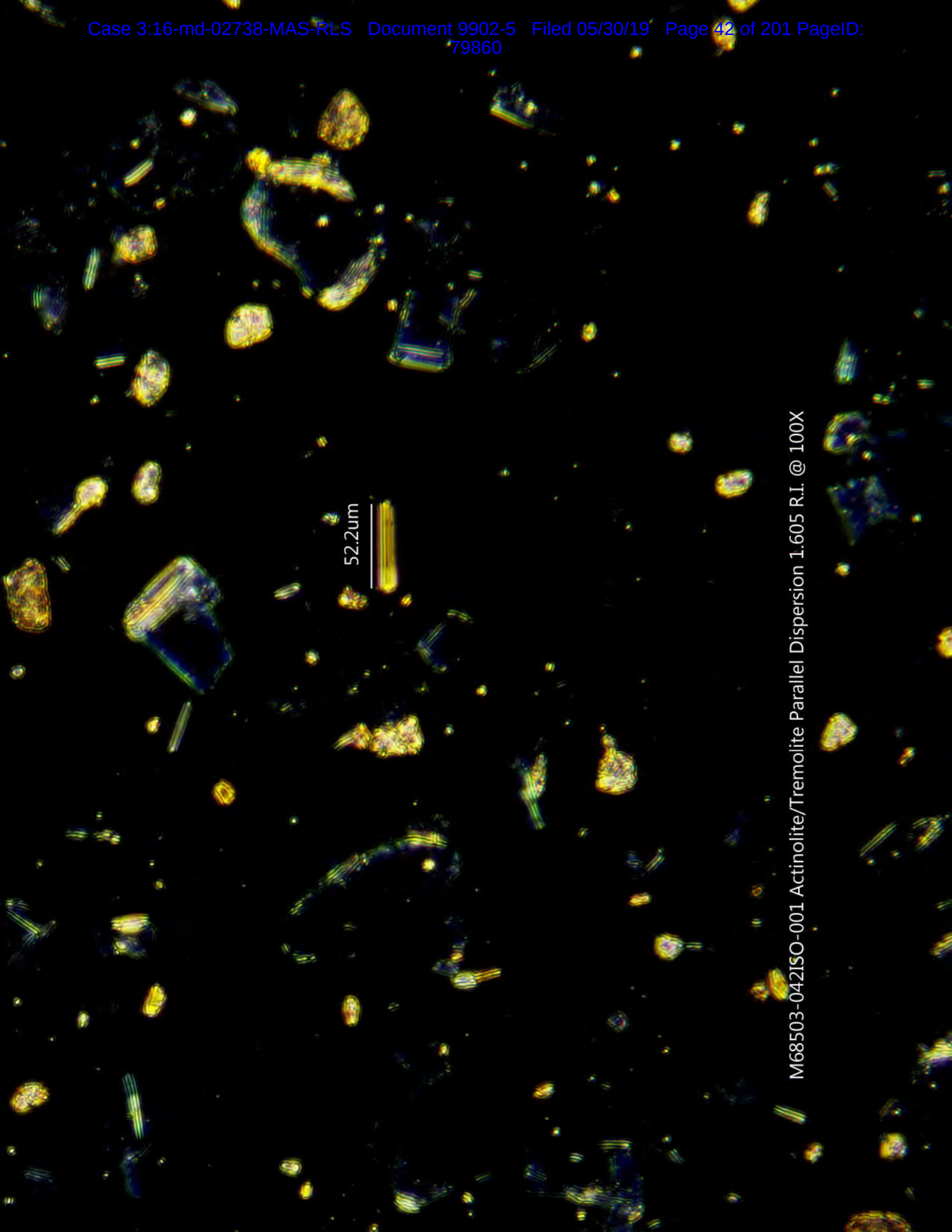
NON FIBROUS COMPONENTS

Opakes..... X
Talc..... X
Mineral grains..... X

Binder Description _____

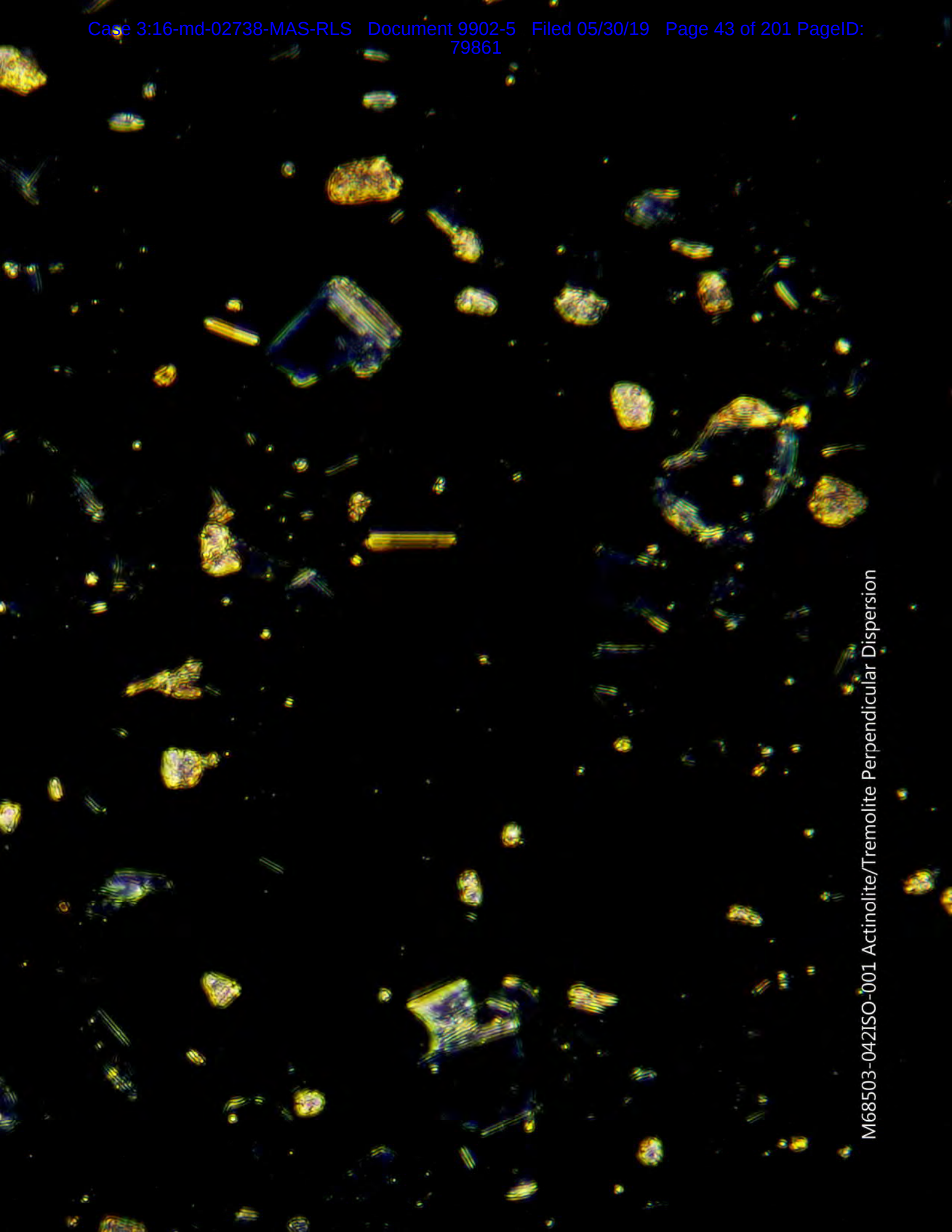
Comments Actinolite/Tremolite asbestos observed. Actinolite/Tremolite cleavage fragments/particles exhibiting <3-1 width to length ratio observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

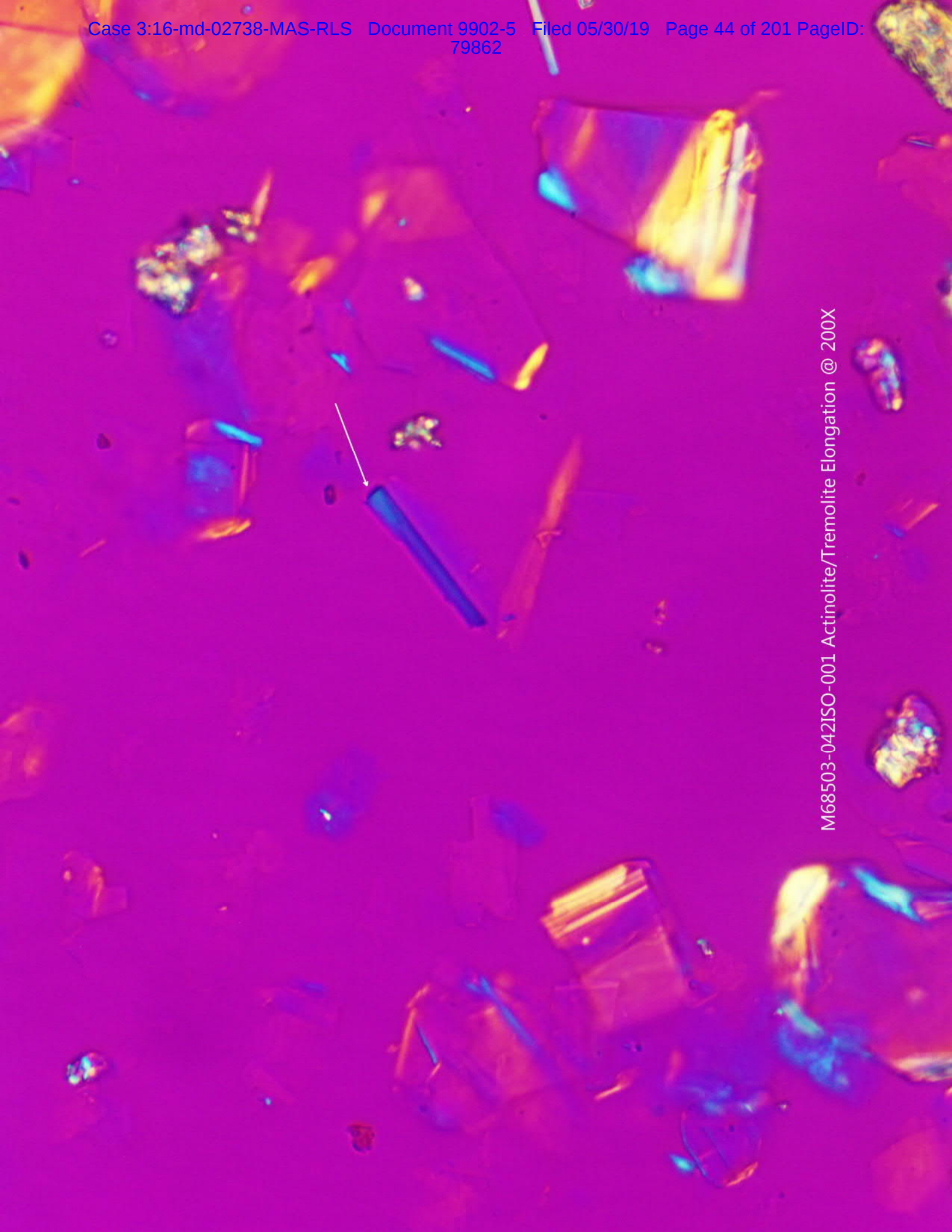


52.2um

M68503-042ISO-001 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X

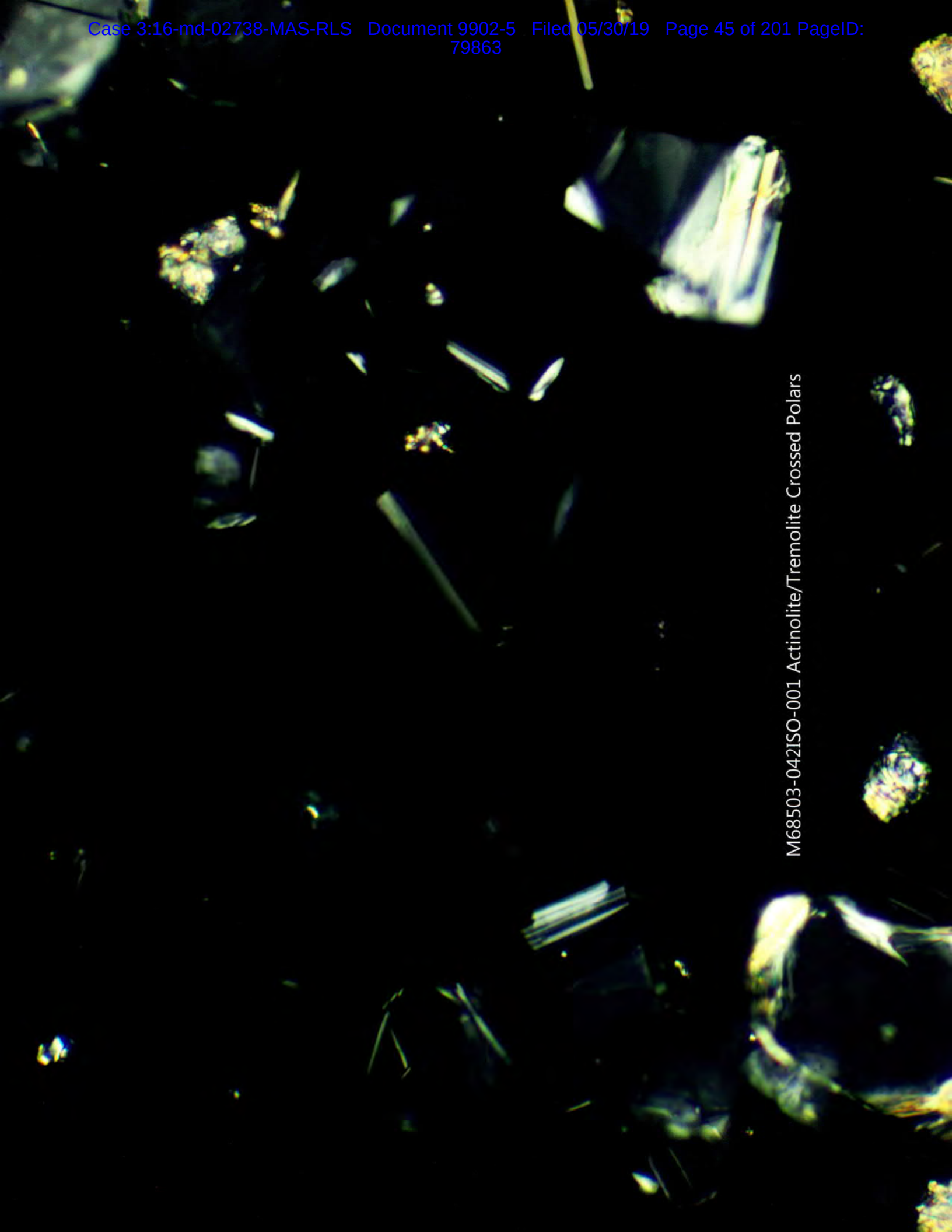


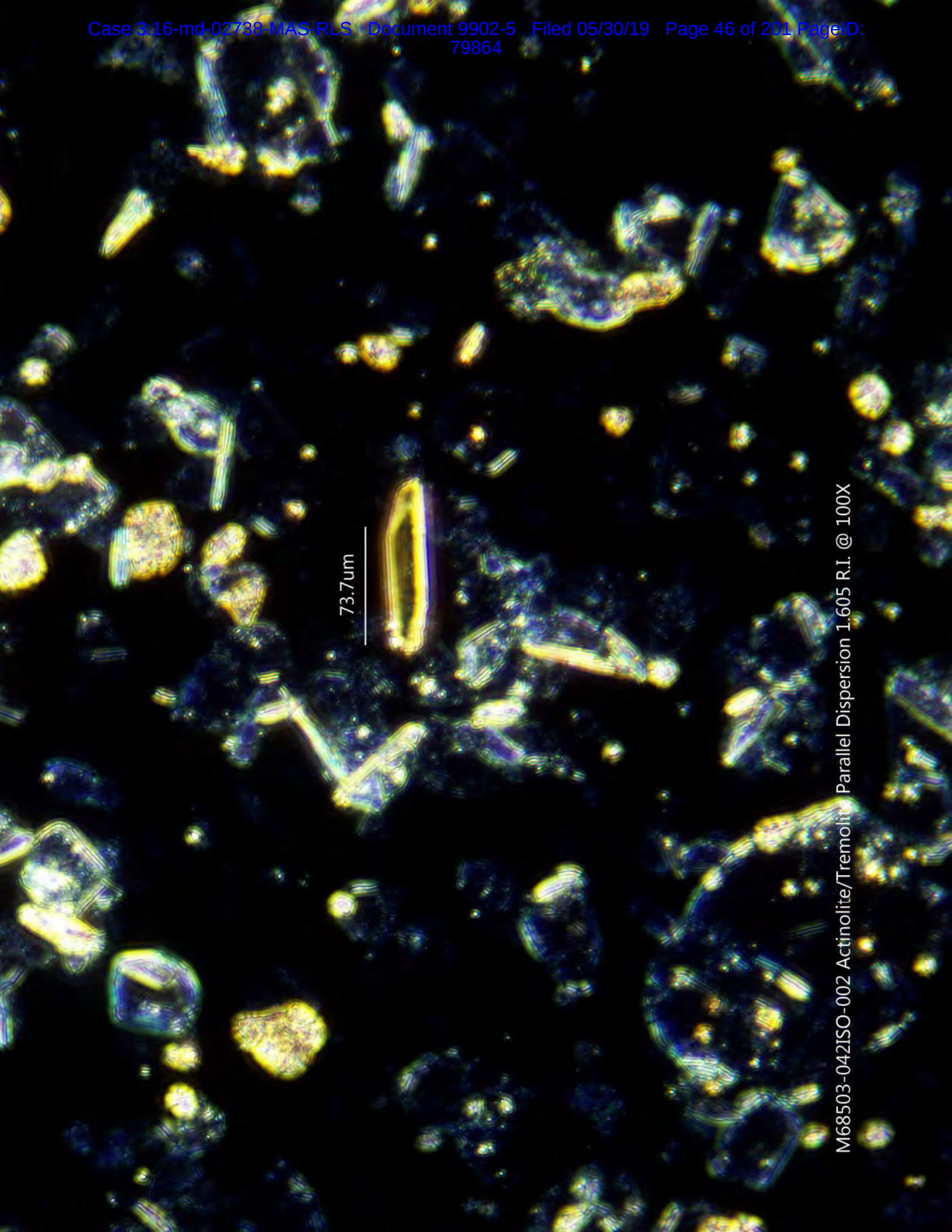
M68503-042ISO-001 Actinolite/Tremolite Perpendicular Dispersion



M68503-042ISO-001 Actinolite/Tremolite Elongation @ 200X

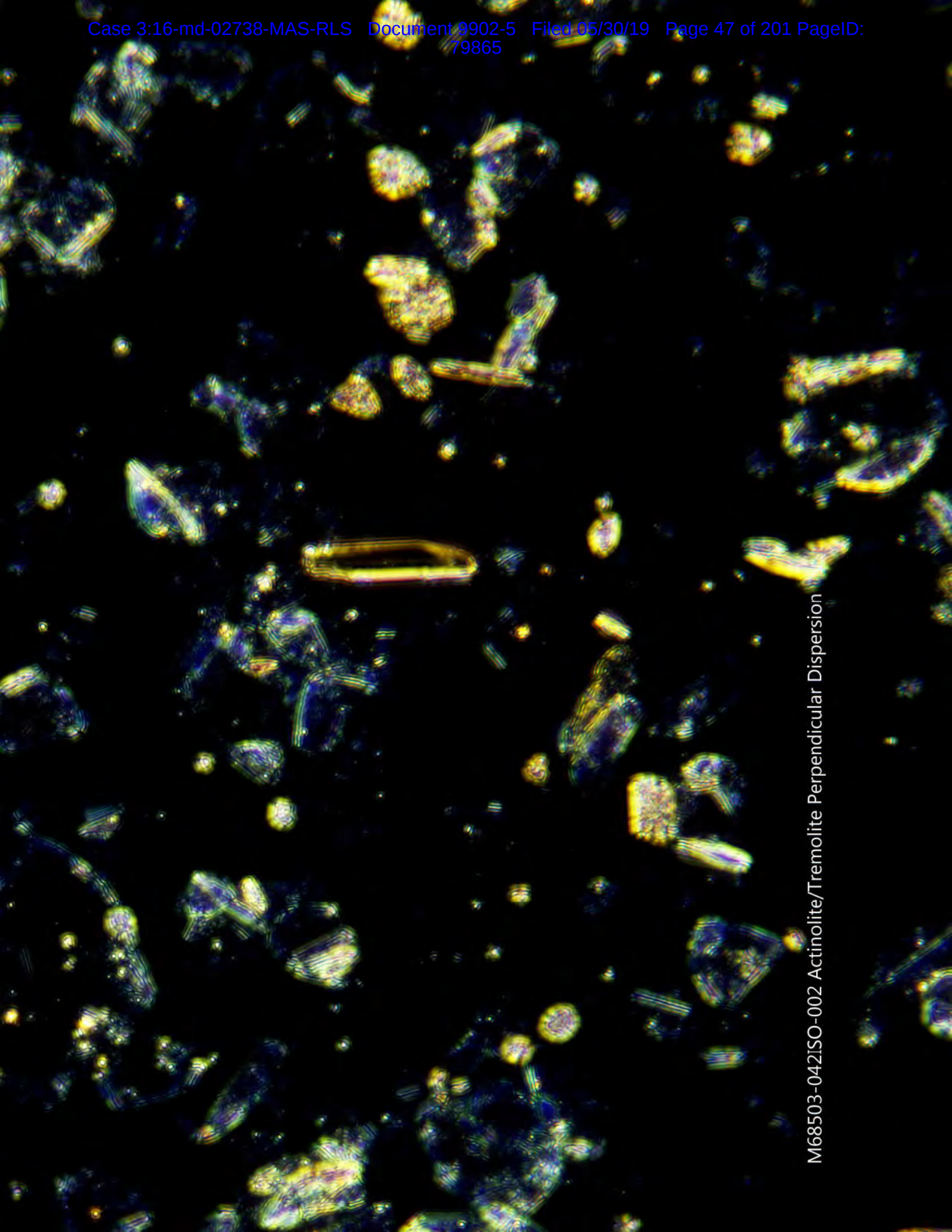
M68503-042ISO-001 Actinolite/Tremolite Crossed Polars





73.7um

M68503-042ISO-002 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



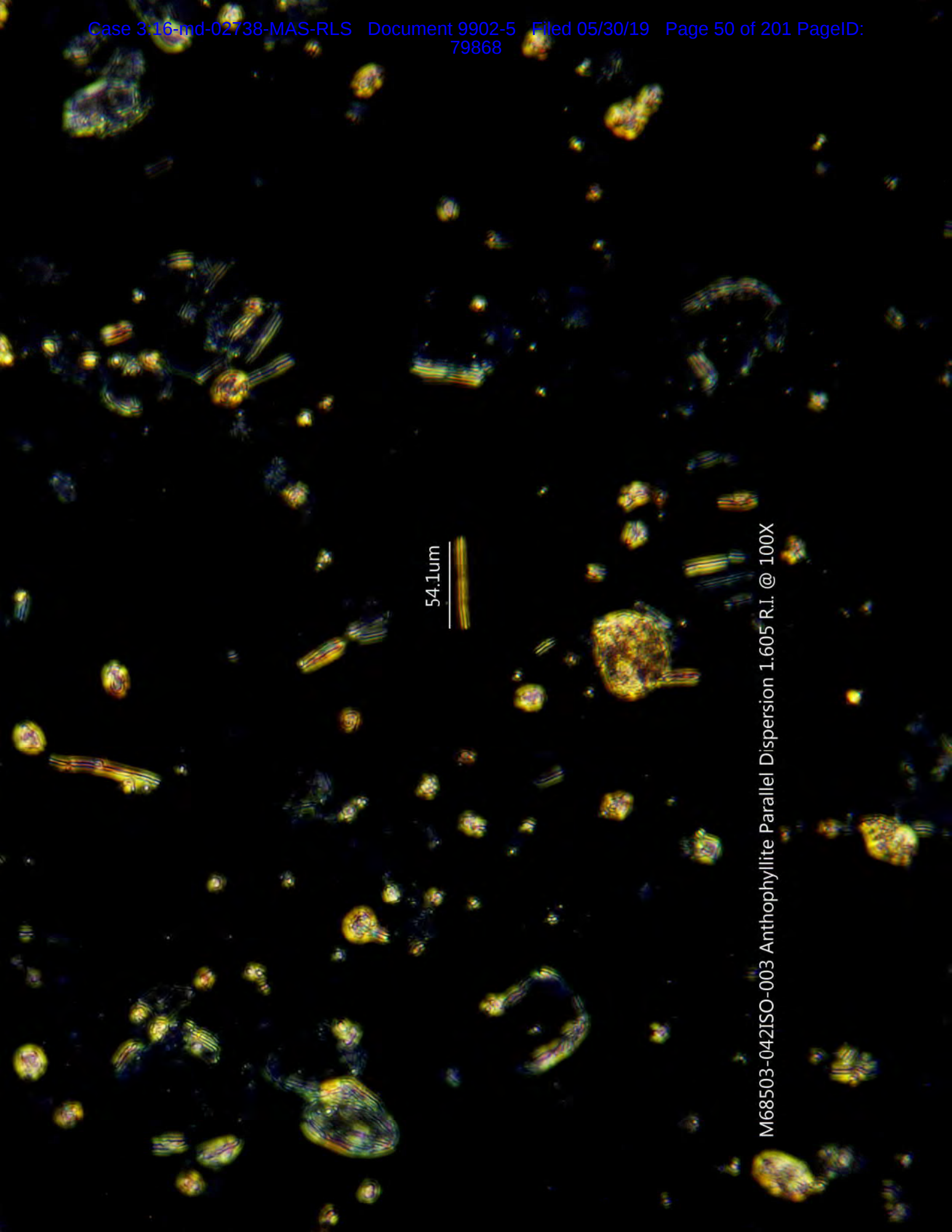
M68503-042ISO-002 Actinolite/Tremolite Perpendicular Dispersion



M68503-042ISO-002 Actinolite/Tremolite Elongation @ 200X

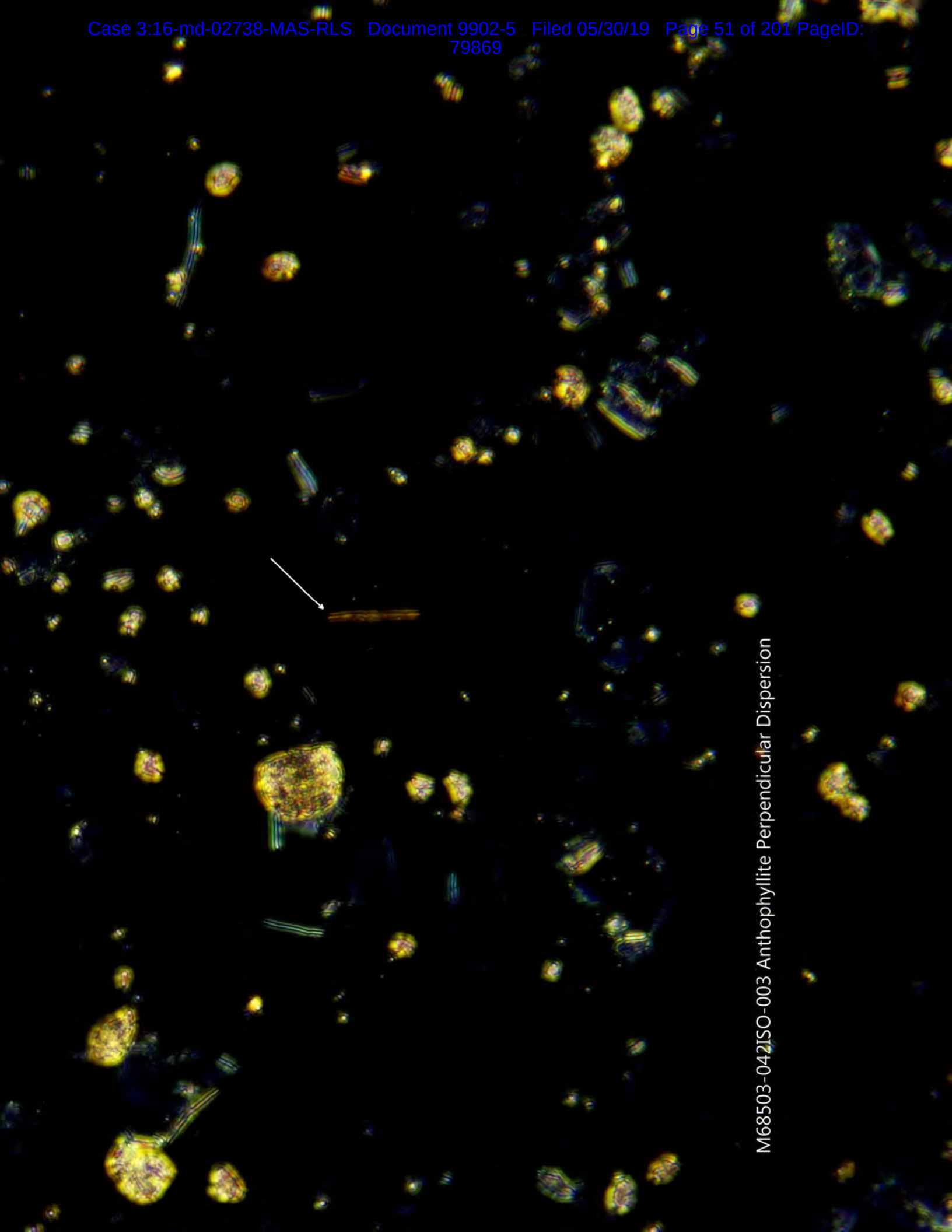


M68503-042ISO-002 Actinolite/Tremolite Crossed Polars

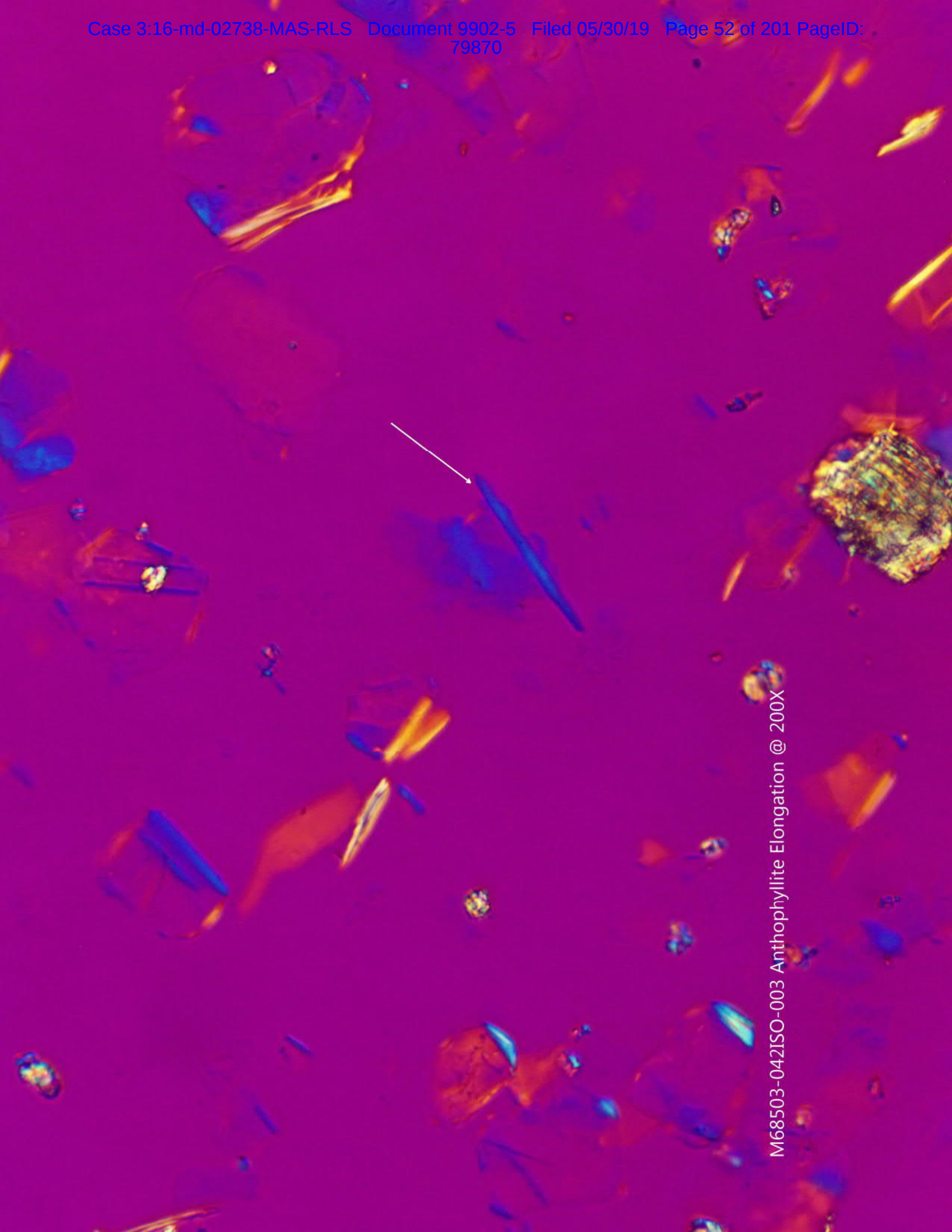


54.1um

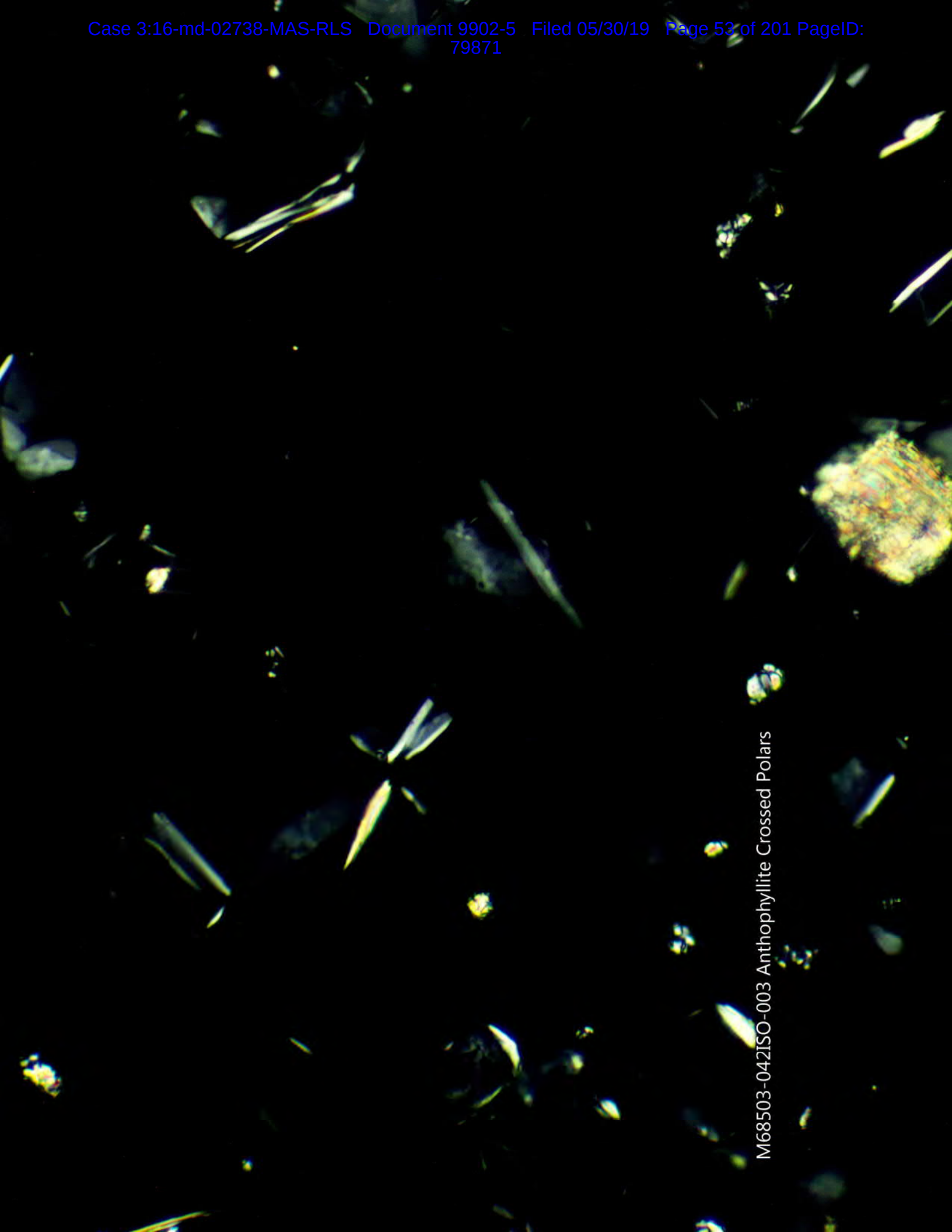
M68503-042ISO-003 Anthophyllite Parallel Dispersion 1.605 R.I. @ 100X



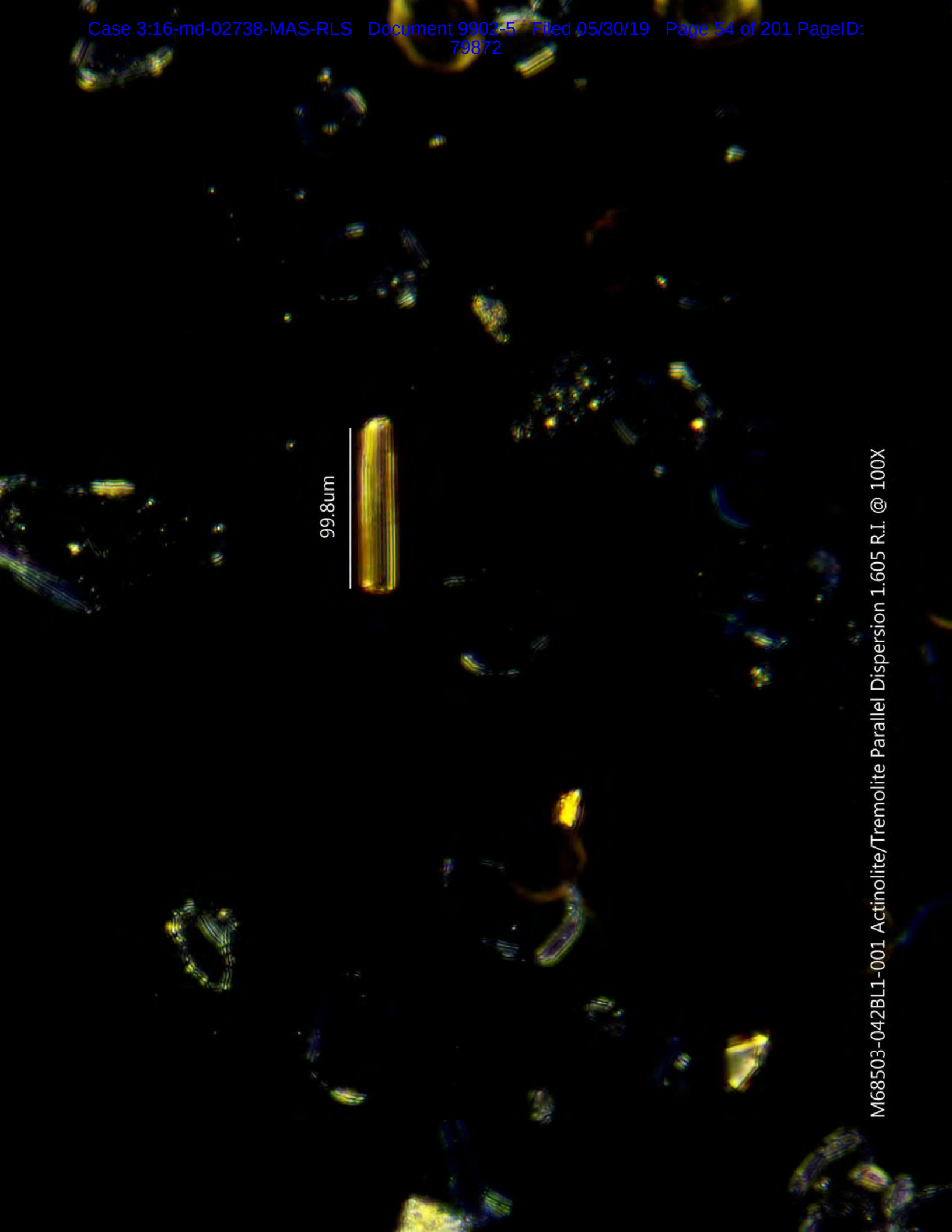
M68503-042ISO-003 Anthophyllite Perpendicular Dispersion



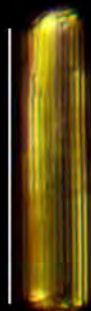
M68503-042ISO-003 Anthophyllite Elongation @ 200X



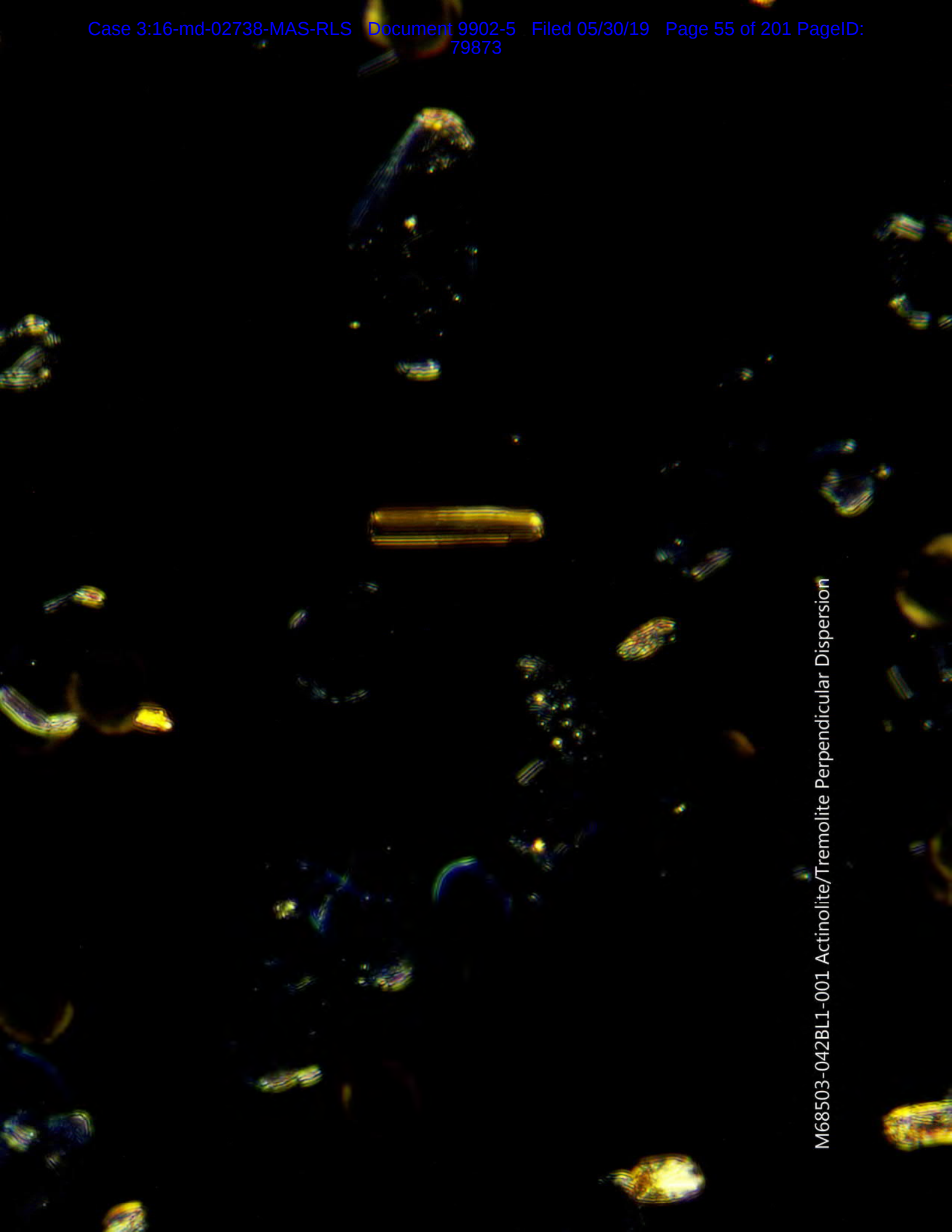
M68503-042ISO-003 Anthophyllite Crossed Polars



99.8um



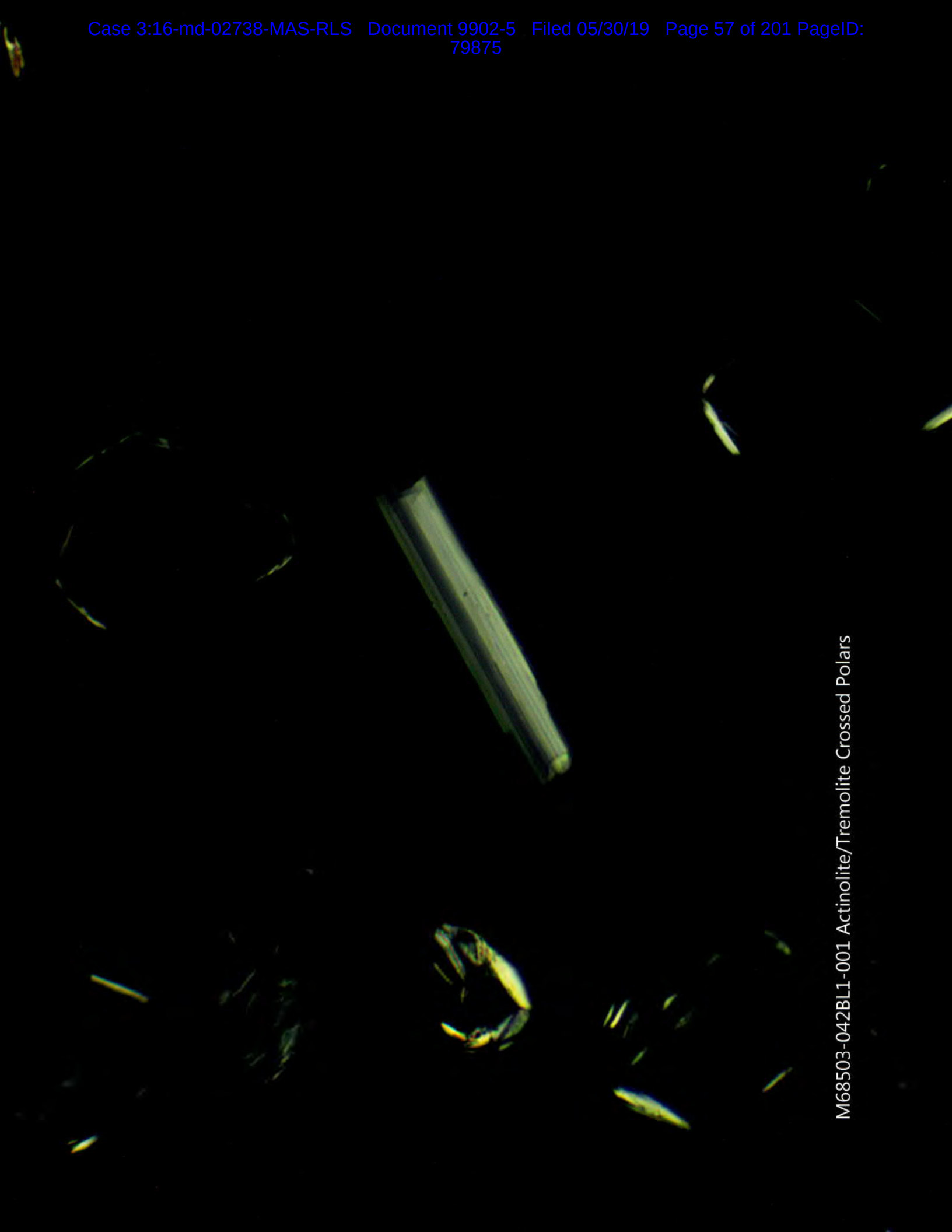
M68503-042BL1-001 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



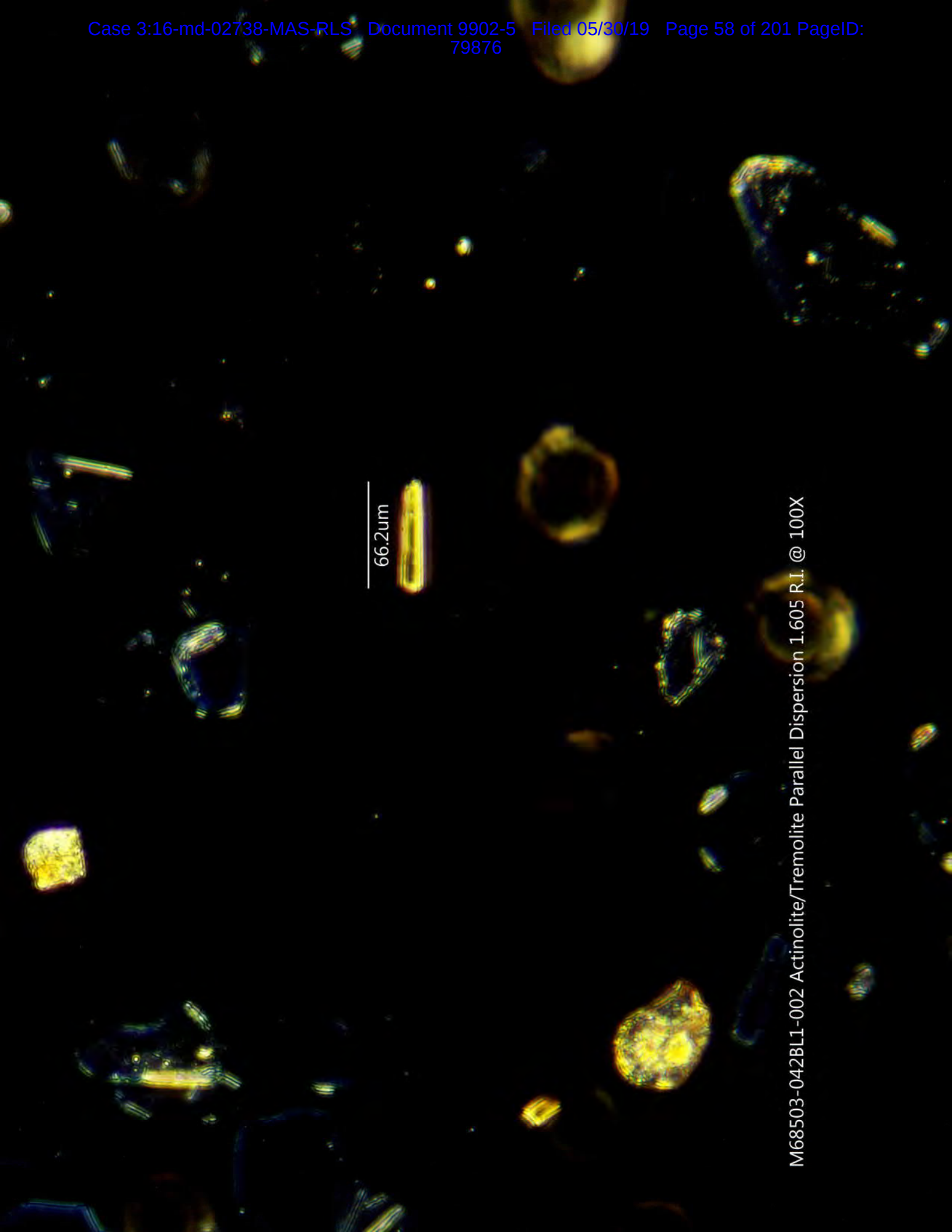
M68503-042BL1-001 Actinolite/Tremolite Perpendicular Dispersion



M68503-042BL1-001 Actinolite/Tremolite Elongation @ 200X

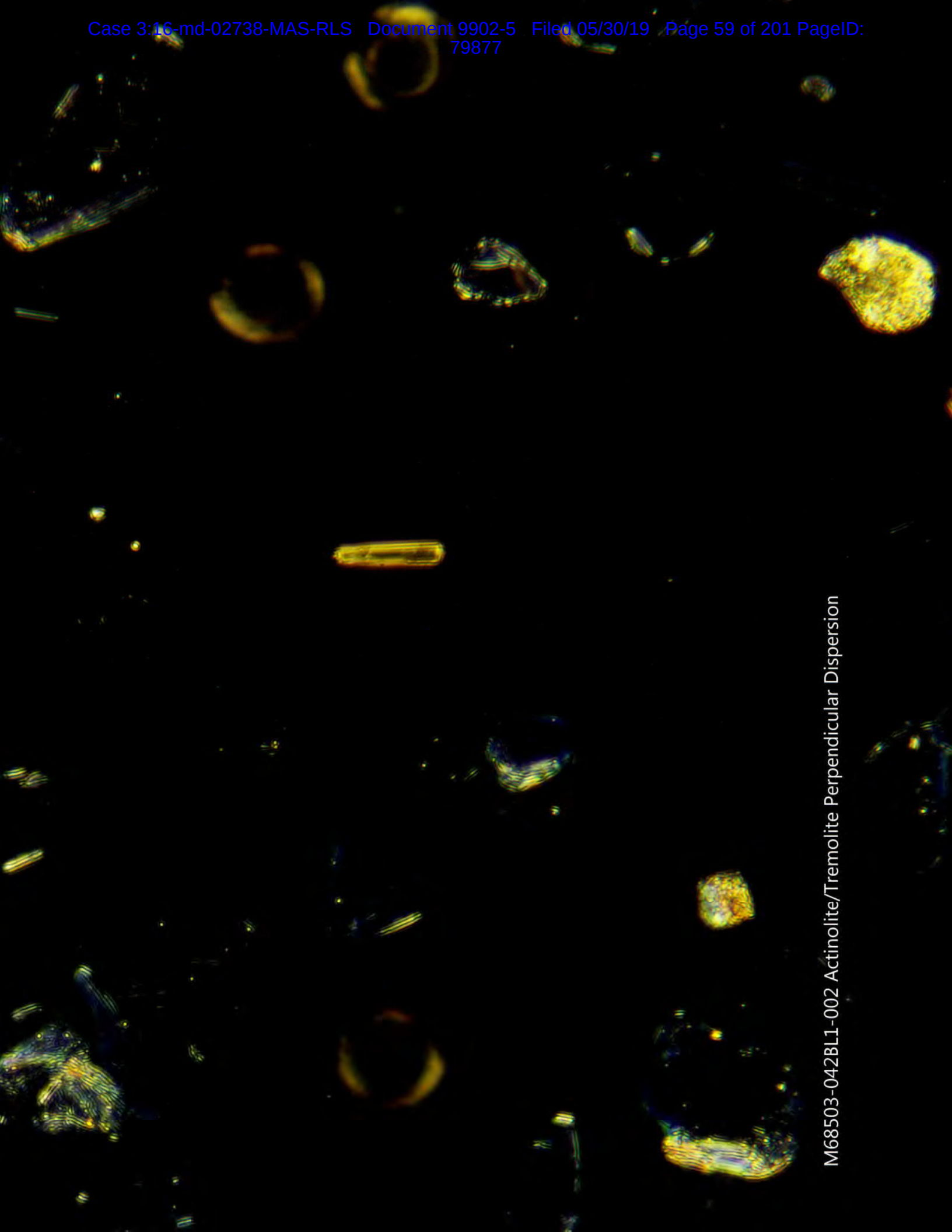


M68503-042BL1-001 Actinolite/Tremolite Crossed Polars



66.2um

M68503-042BL1-002 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



M68503-042BL1-002 Actinolite/Tremolite Perpendicular Dispersion



M68503-042BL1-002 Actinolite/Tremolite Elongation @ 200X



M68503-042BL1-002 Actinolite/Tremolite Crossed Polars

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-042		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G. O. Area
Date of Analysis	10/31/2018-11/1/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.03095			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E6-B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	I1							
NSD	I2							
NSD	I3							
NSD	I4							
NSD	I5							
1	I6	Bundle	Anthophyllite	19	2	9.5	X	X
NSD	I7							
NSD	I8							
NSD	I9							
NSD	I10							
NSD	J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
NSD	J8							
2	J9	Bundle	Anthophyllite	29	2	14.5	X	X
NSD	J10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-042		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G. O. Area
Date of Analysis	10/31/2018-11/1/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.03095			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E7-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
NSD	J8							
NSD	J9							
NSD	J10							
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							
NSD	H9							
NSD	H10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	A1							
NSD	A2							
3	A3	Bundle	Anthophyllite	6.7	0.8	8.4	X	X
4		Bundle	Anthophyllite	40	6	6.7	X	X
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							

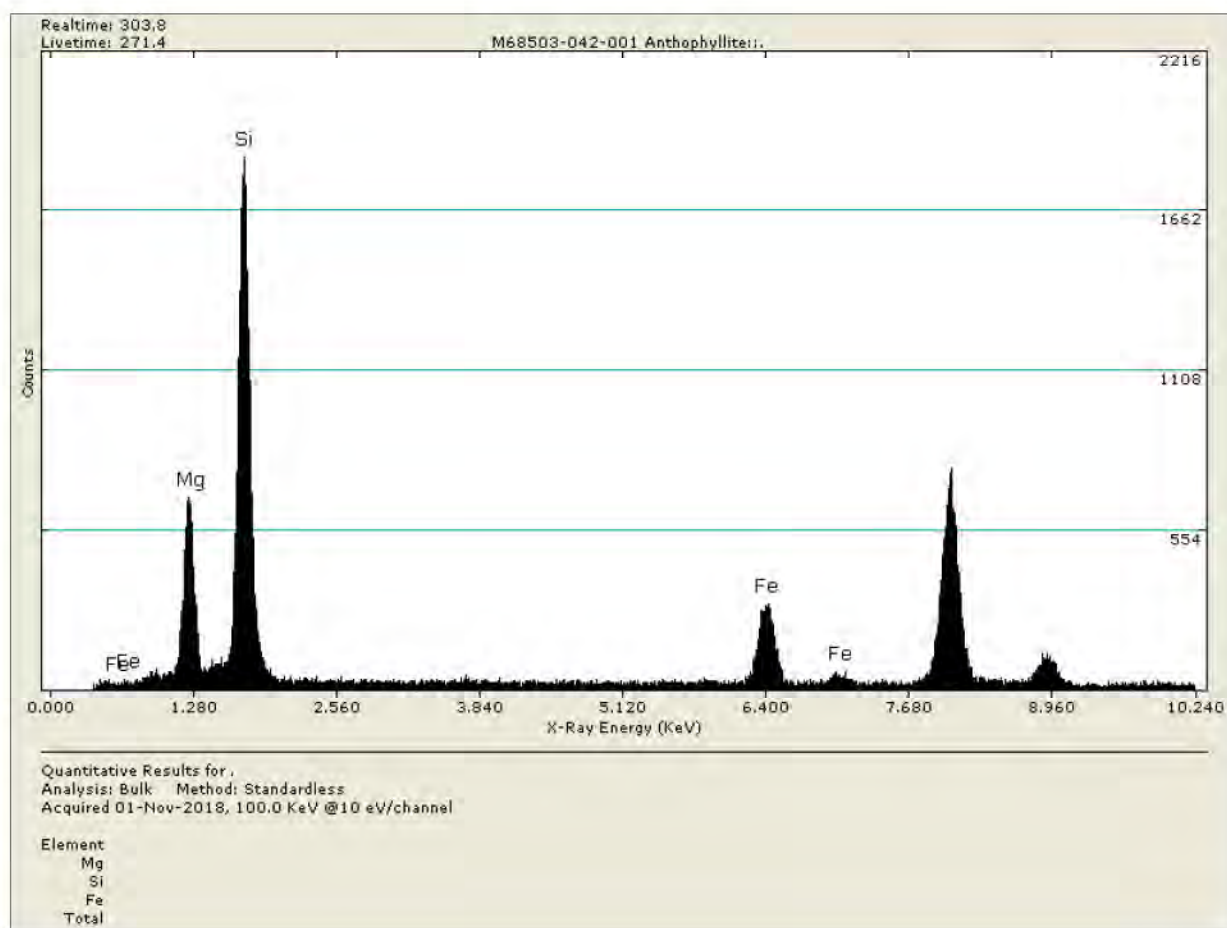
TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-042		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G. O. Area
Date of Analysis	10/31/2018-11/1/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.03095			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm²			1.103

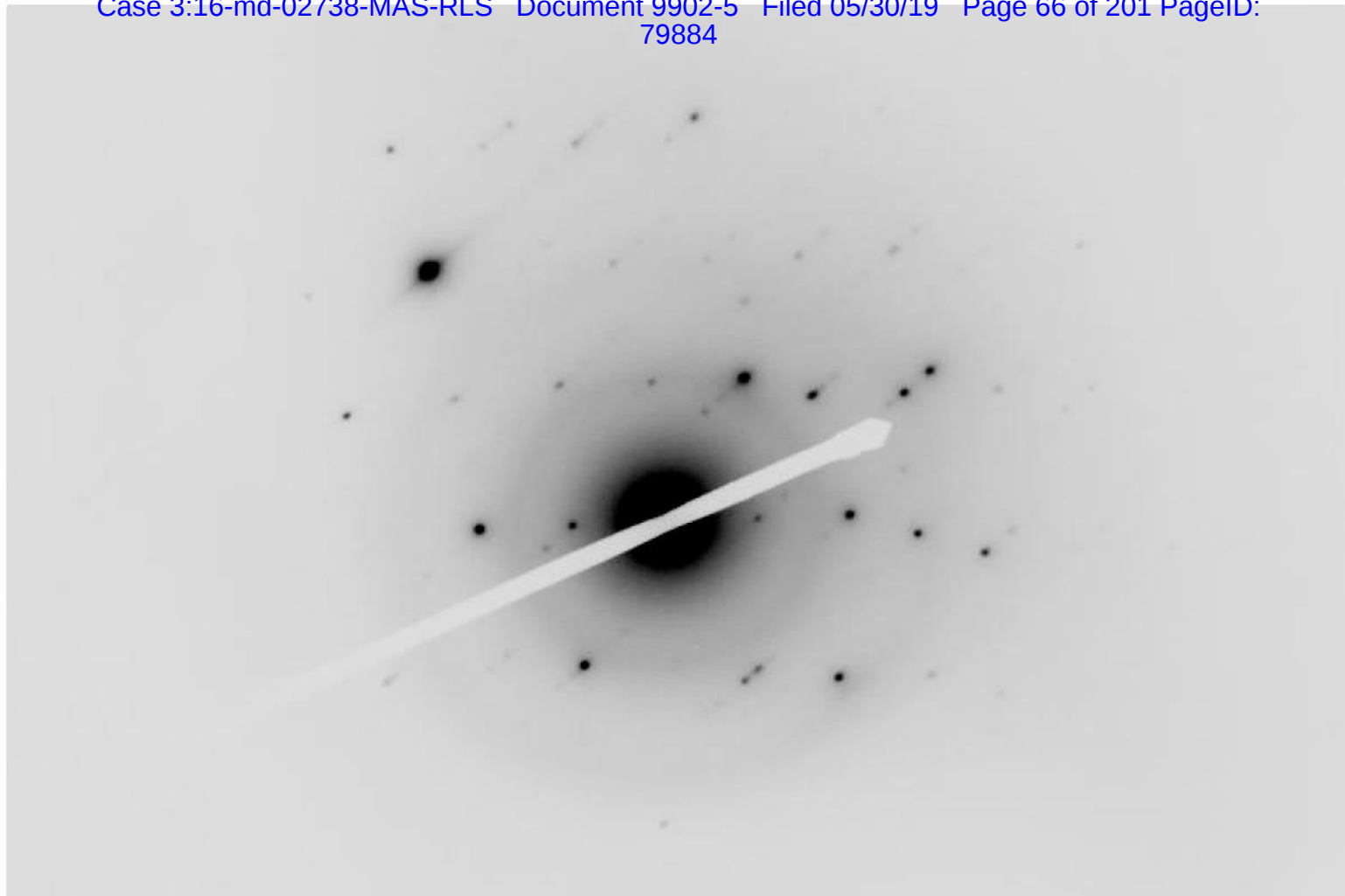
Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	A10							

	Sample Wt.	
Org. Sample Wt.	Post HL Separation	
0.03095	0.03095	g
Percent of Orig. Post Separation	100	(%)

Wt. Of Sample Analyzed	0.00016968	g
Filter size	201.1	mm²
Number of Structures Counted	4	Str.
Structures per Gram of Sample	2.36E+04	Str./g

Detection Limit	5.89E+03	Str./g
Analytical Sensitivity	5.89E+03	Str./g

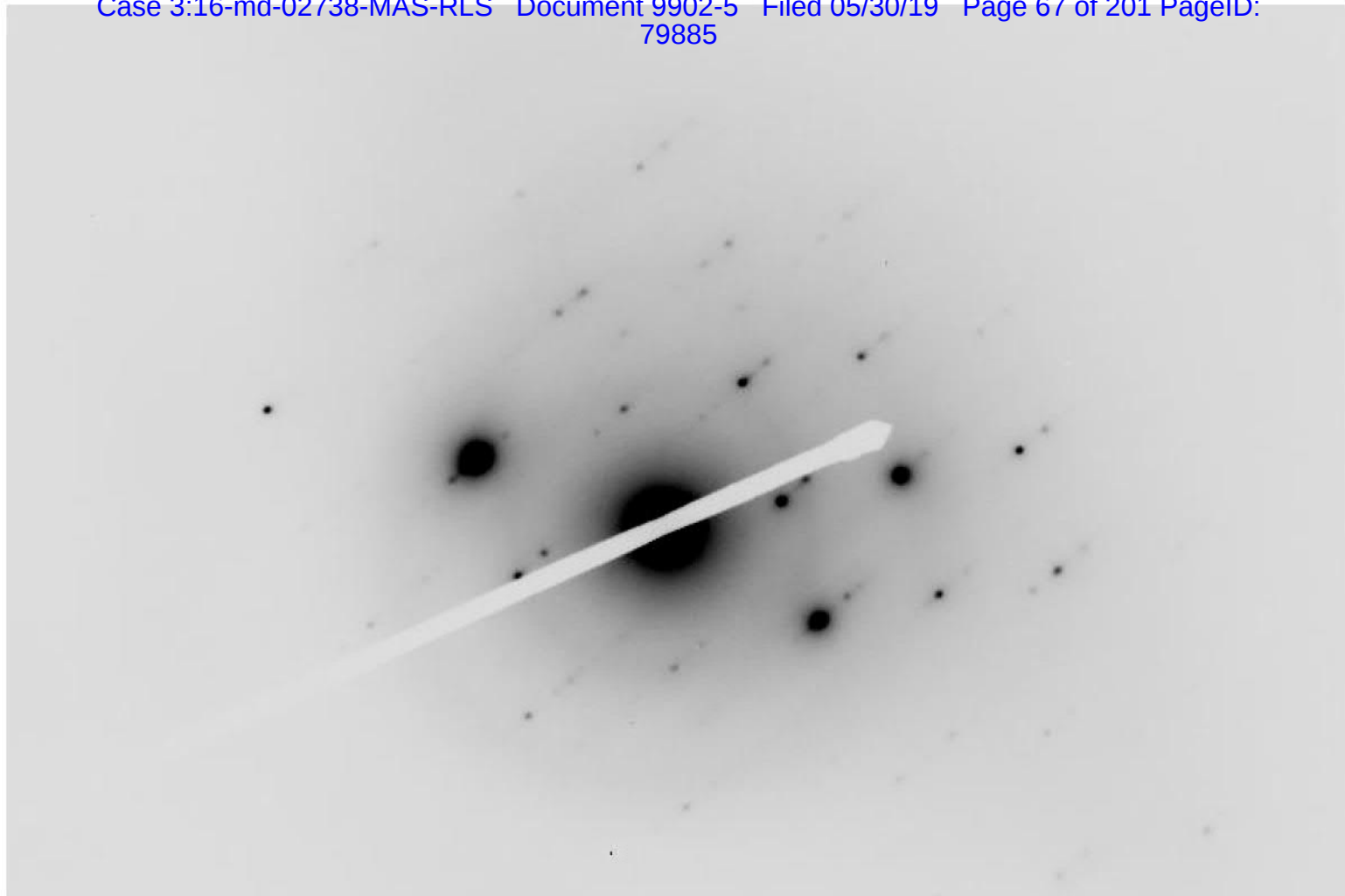




41402

M68503-042-001 Anthophyllite Diffraction 1 @ 50cm

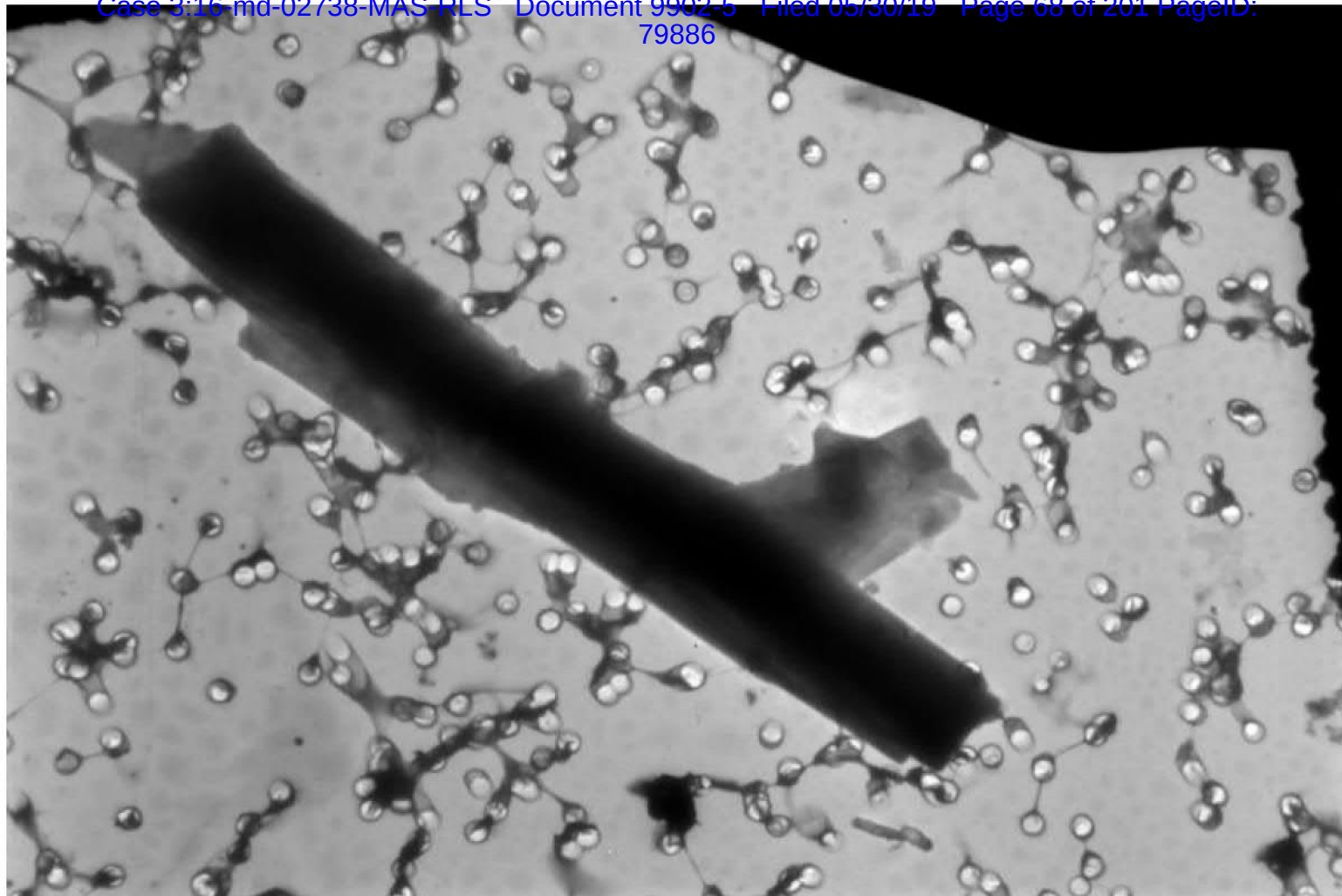
11/1/2018



41403

M68503-042-001 Anthophyllite Diffraction 2 @ 50cm

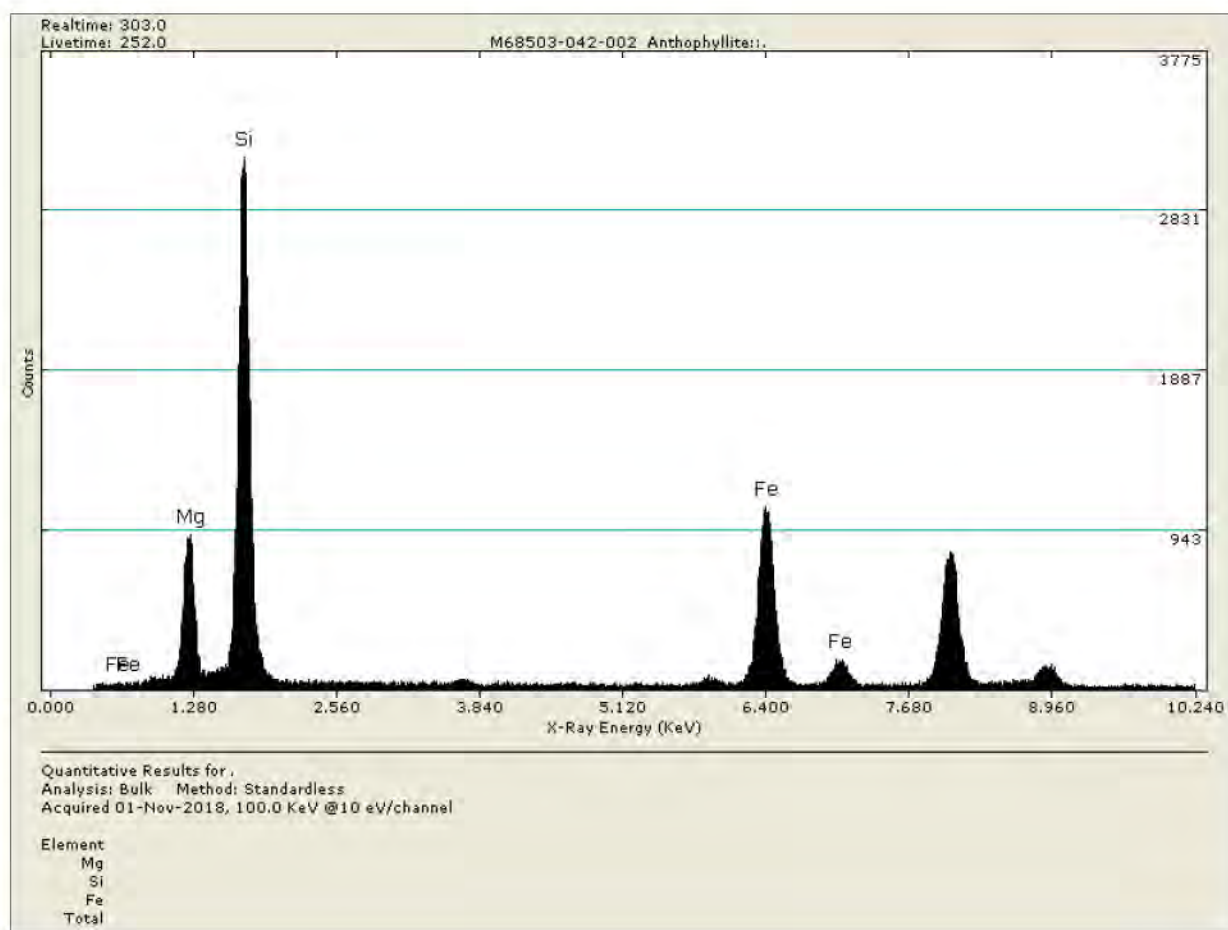
11/1/2018

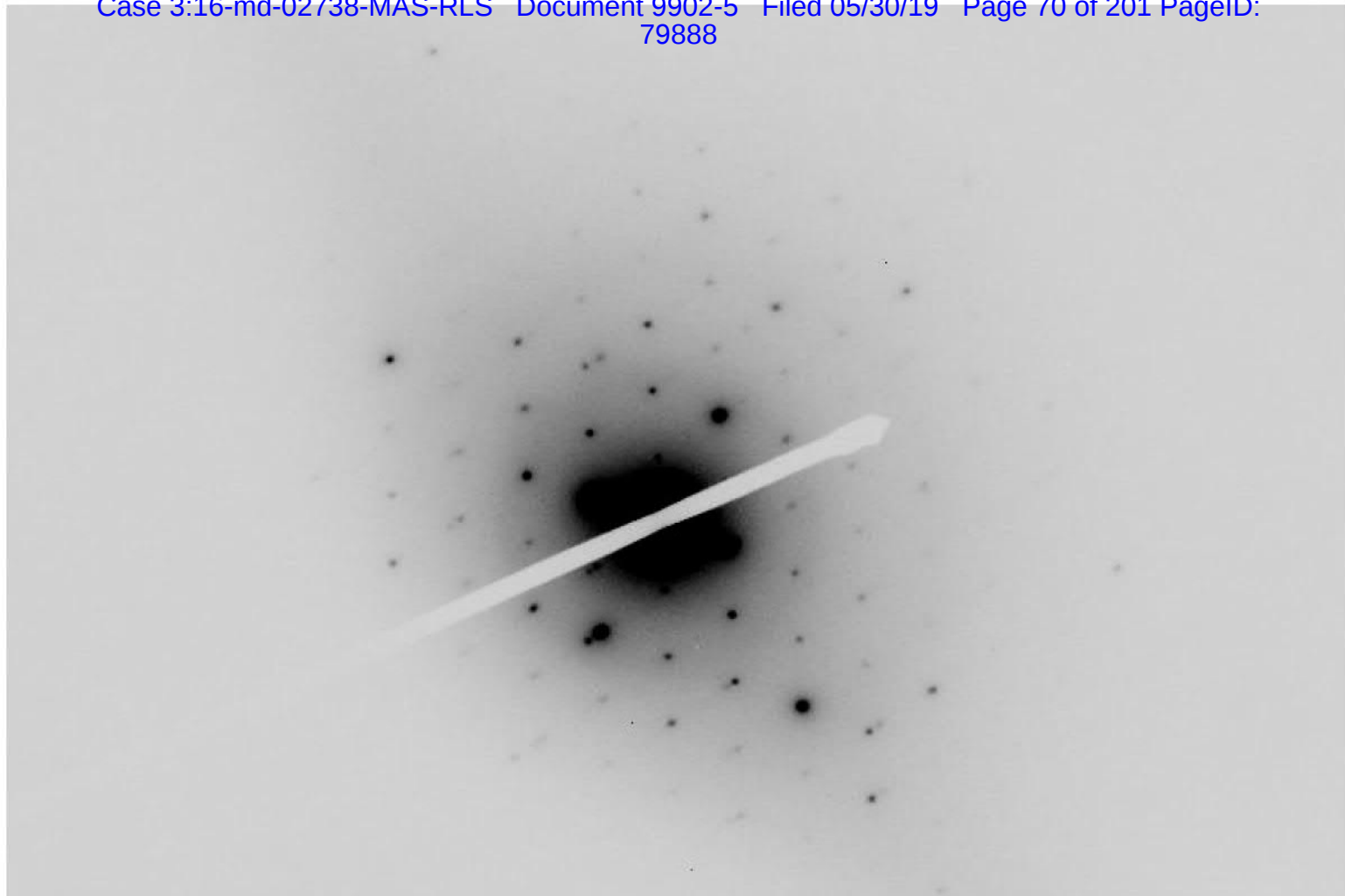


41404

M68503-042-001 Anthophyllite (19.0um x 2.0um)

11/1/2018

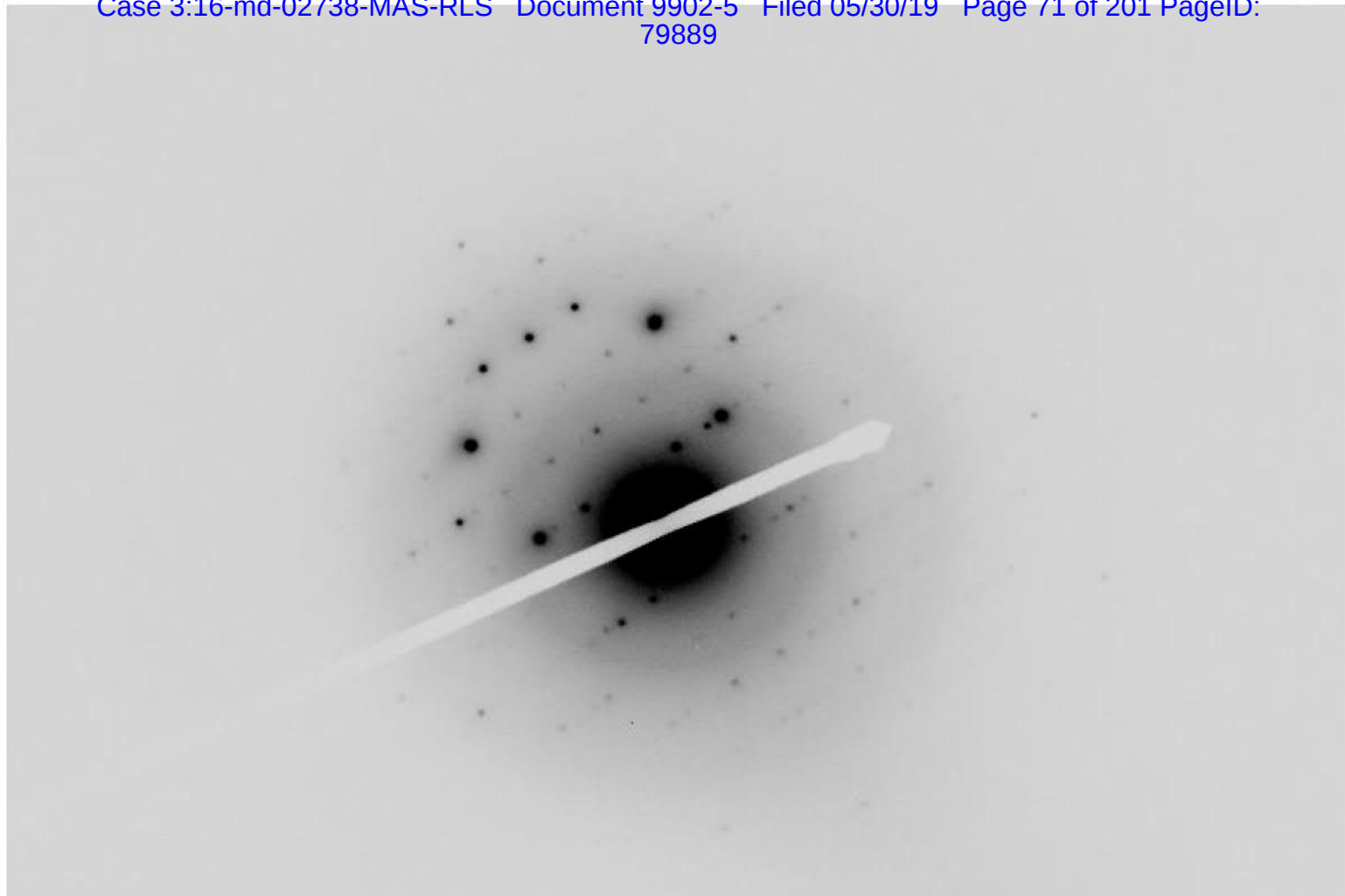




41405

M68503-042-002 Anthophyllite Diffraction 1 @ 50cm

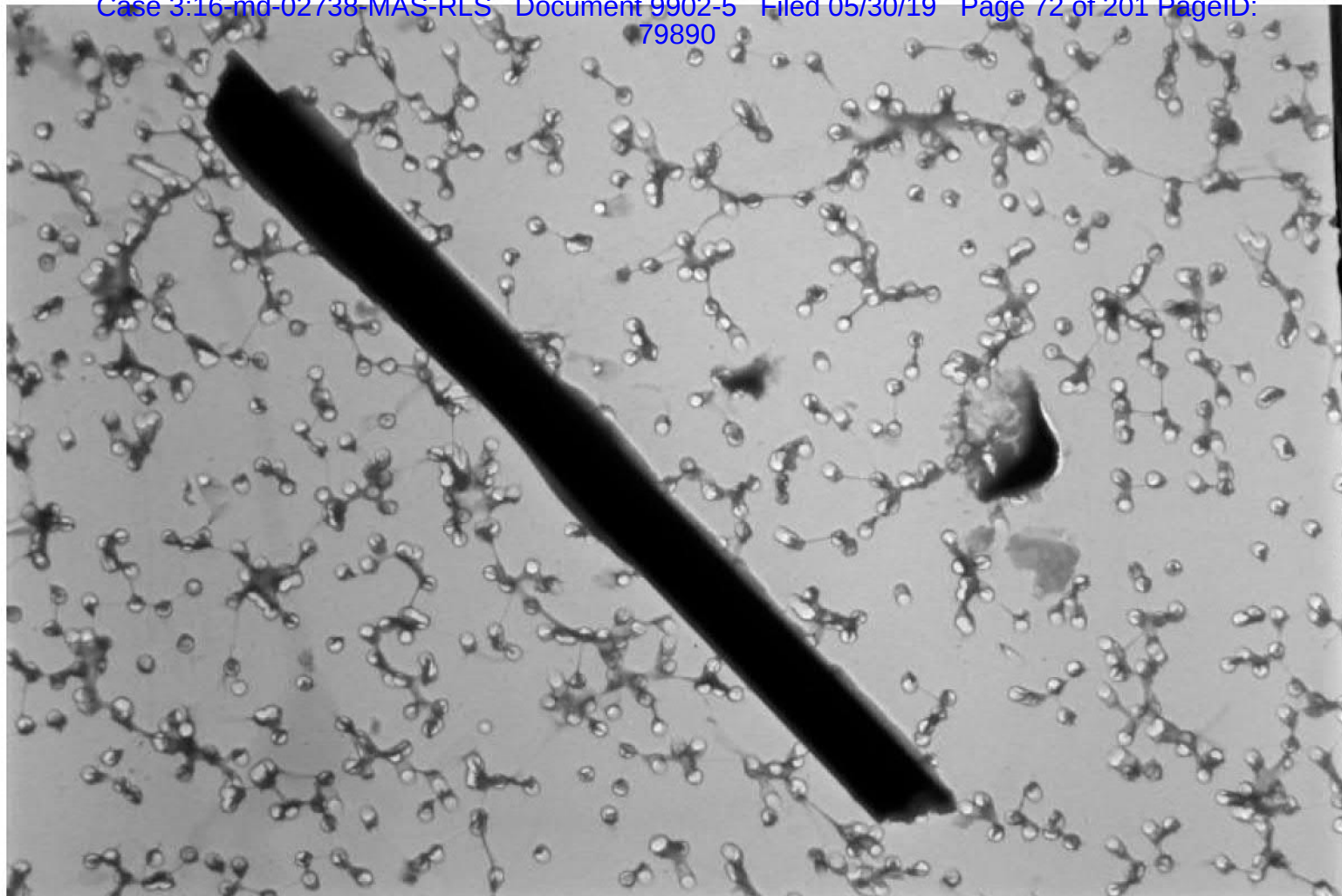
11/1/2018



41406

M68503-042-002 Anthophyllite Diffraction 2 @ 50cm

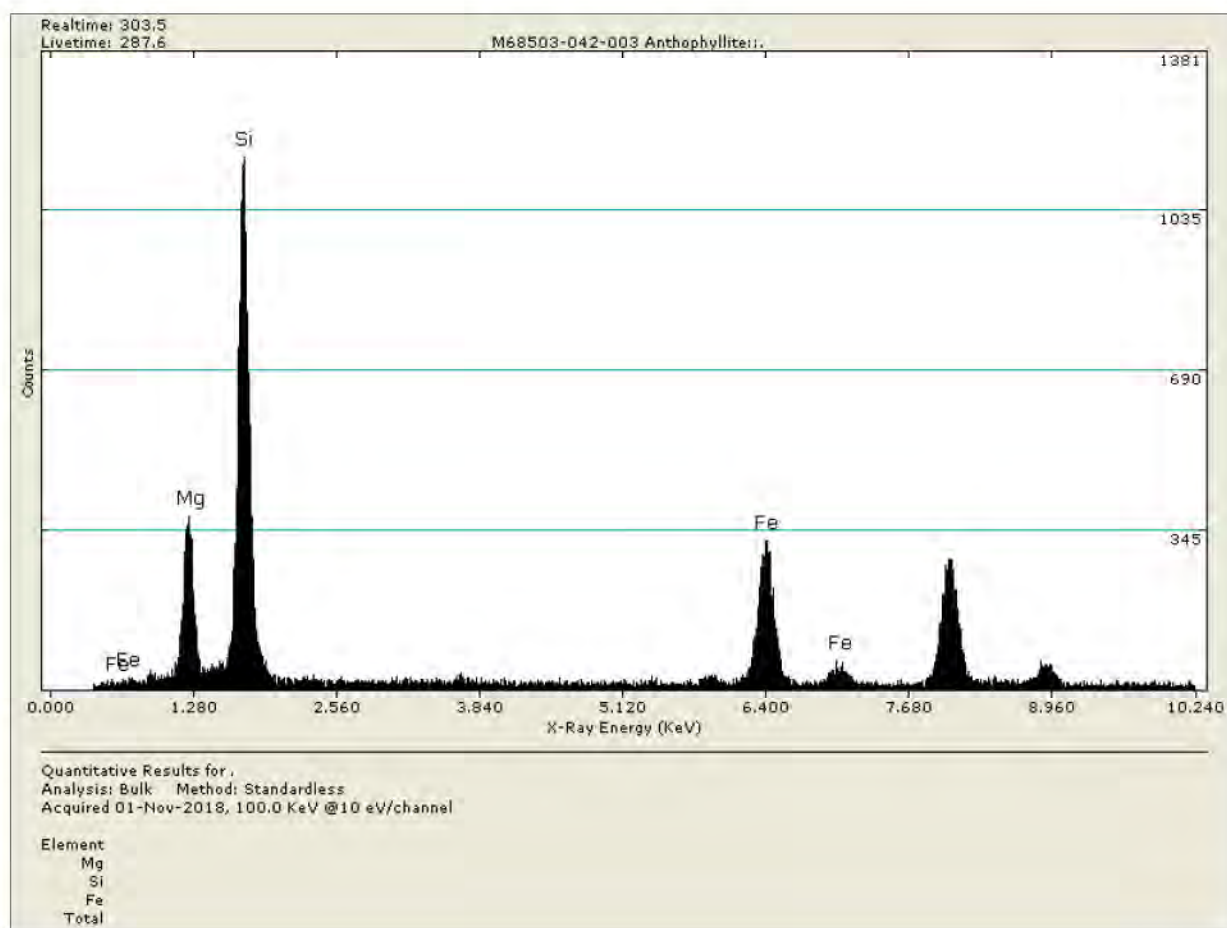
11/1/2018

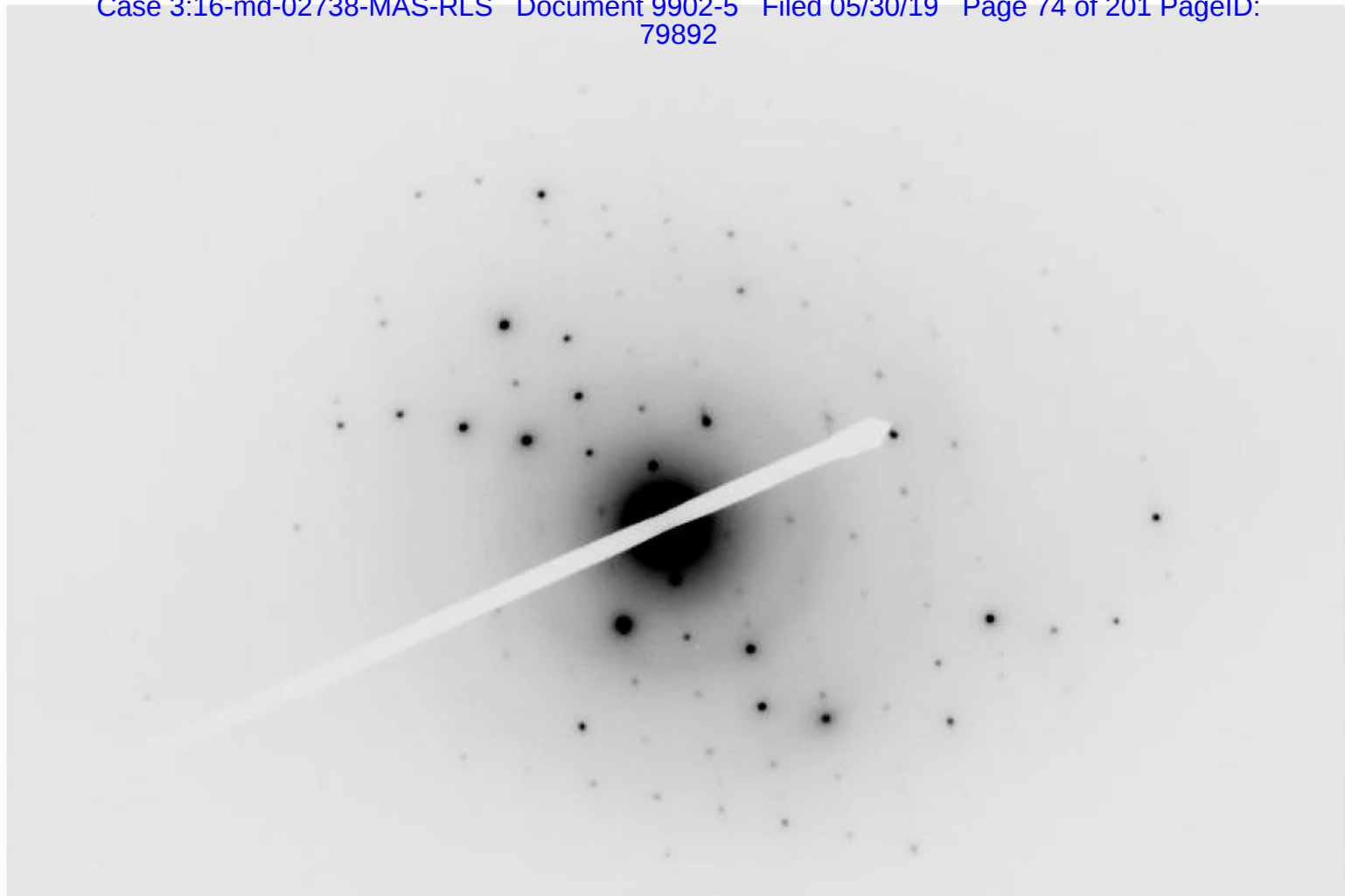


41407

M68503-042-002 Anthophyllite (29.0um x 2.0um)

11/1/2018

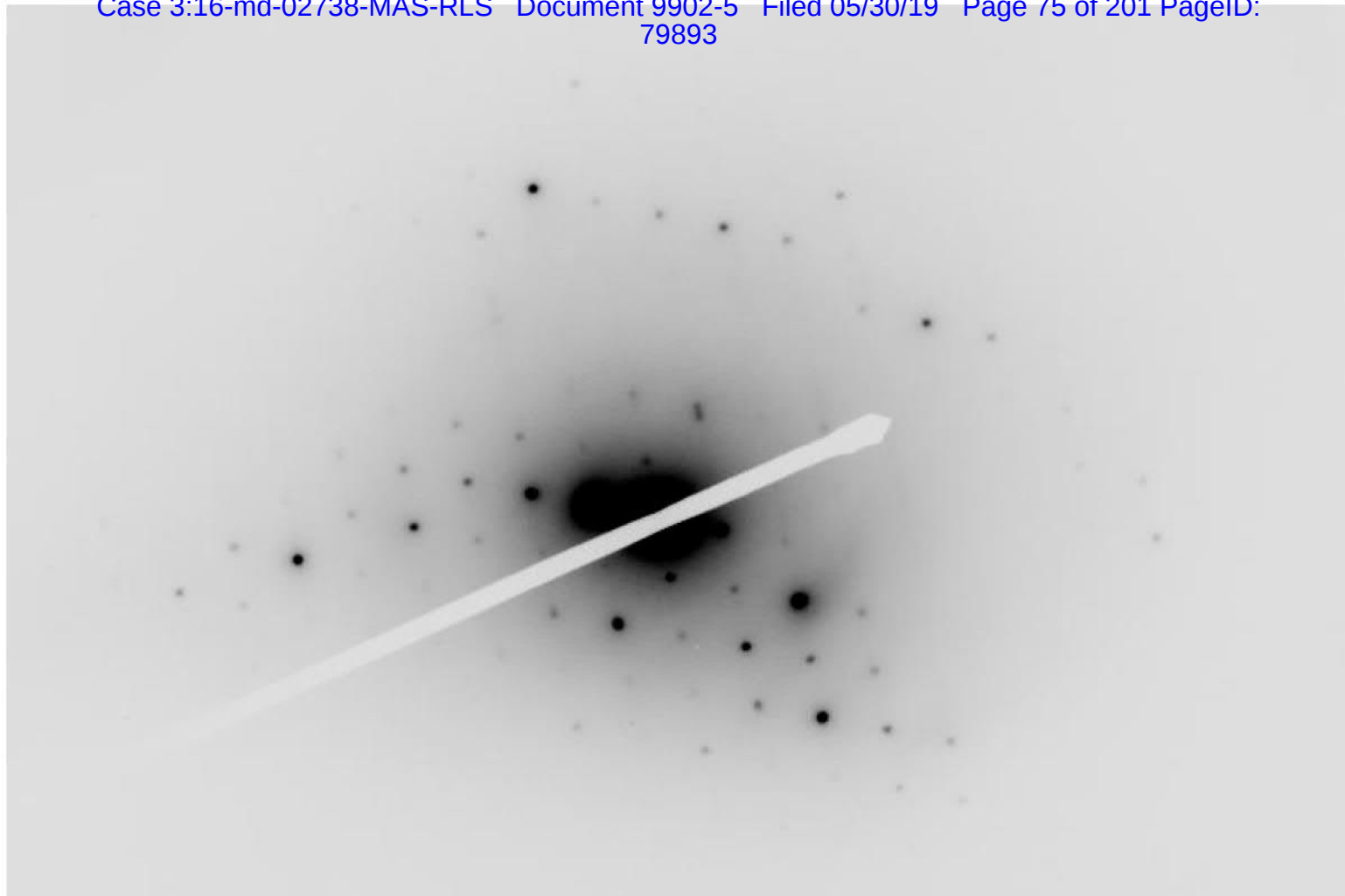




41408

M68503-042-003 Anthophyllite Diffraction 1 @ 50cm

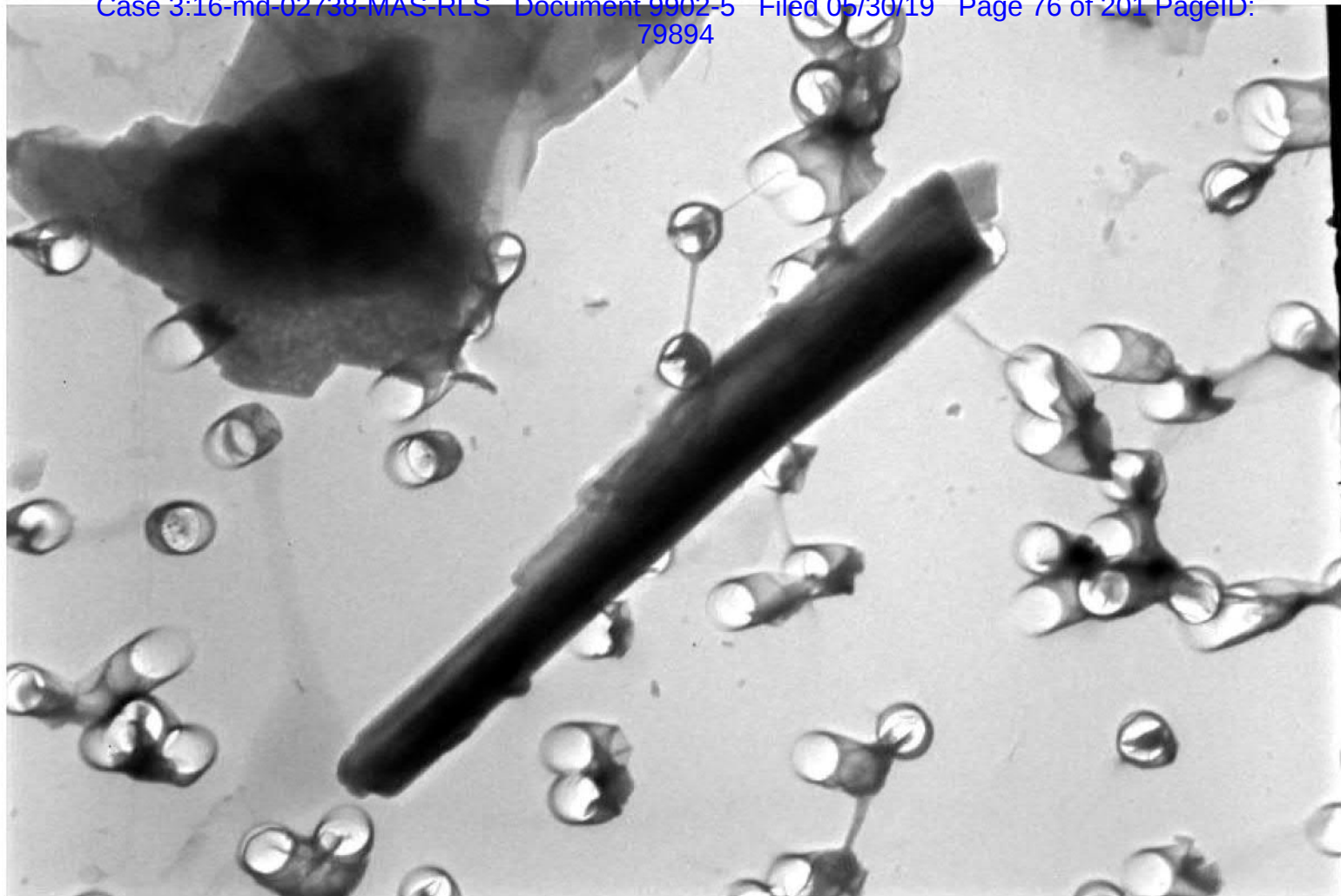
11/1/2018



41409

M68503-042-003 Anthophyllite Diffraction 2 @ 50cm

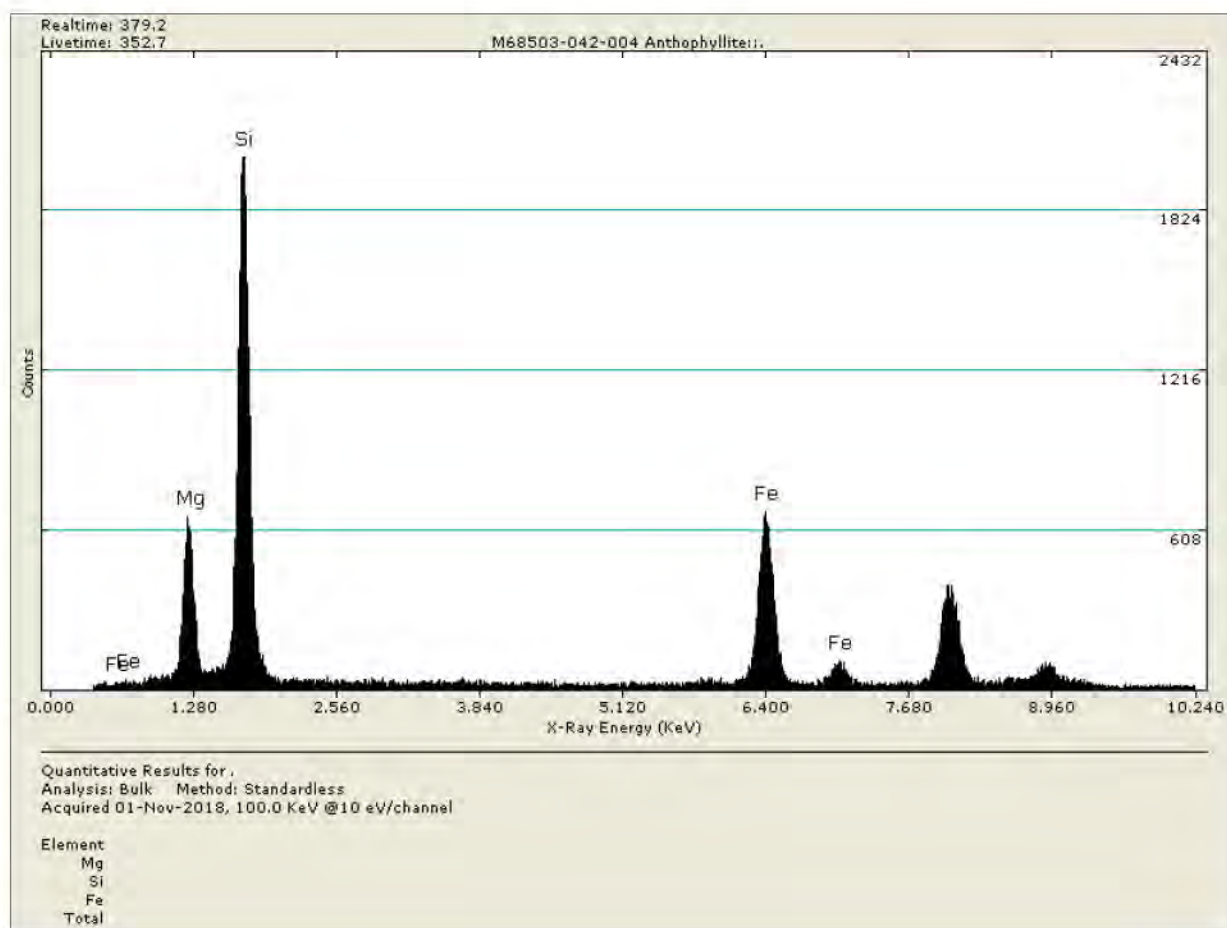
11/1/2018

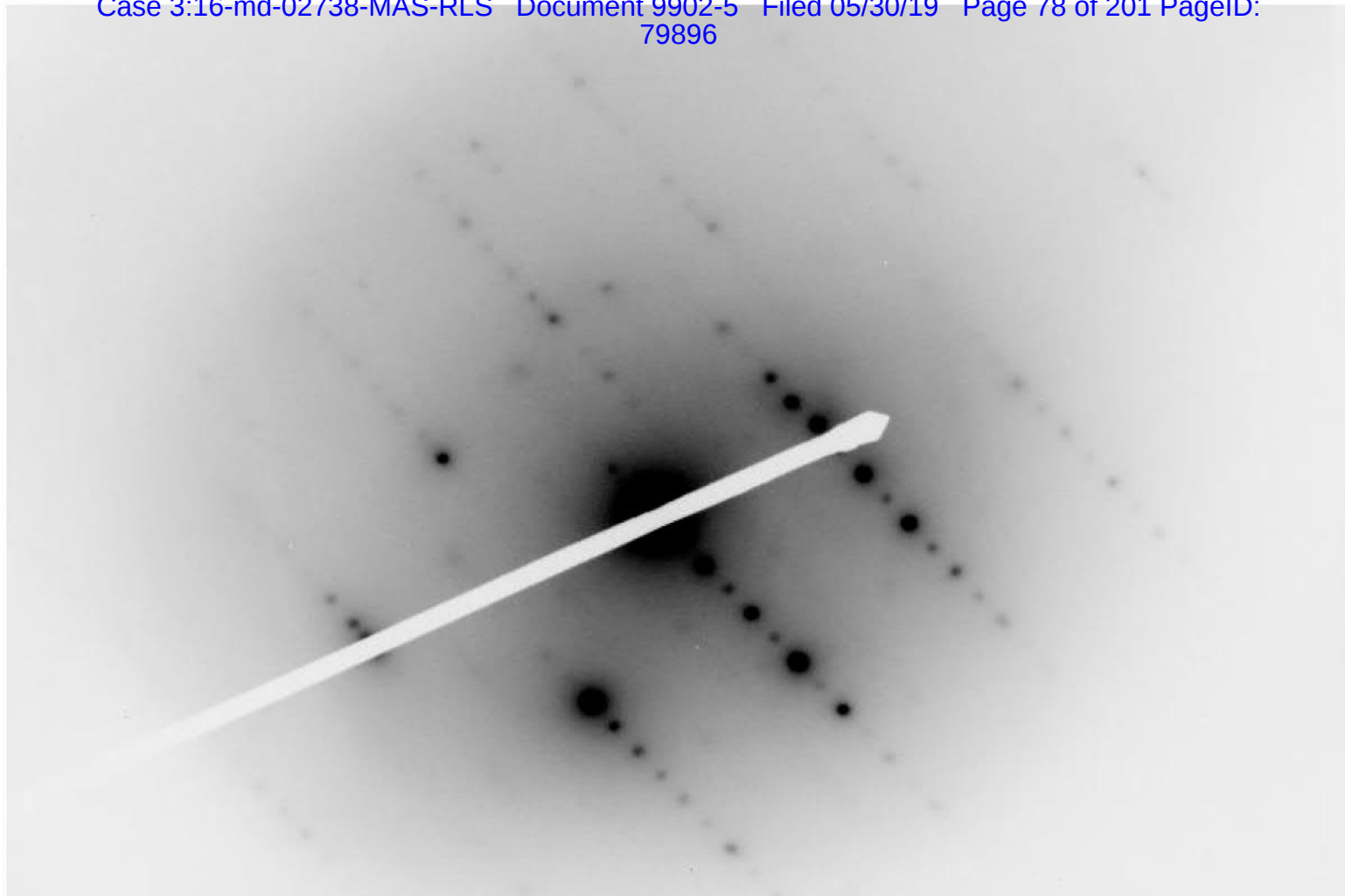


41410

M68503-042-003 Anthophyllite (6.7um x 0.8um)

11/1/2018

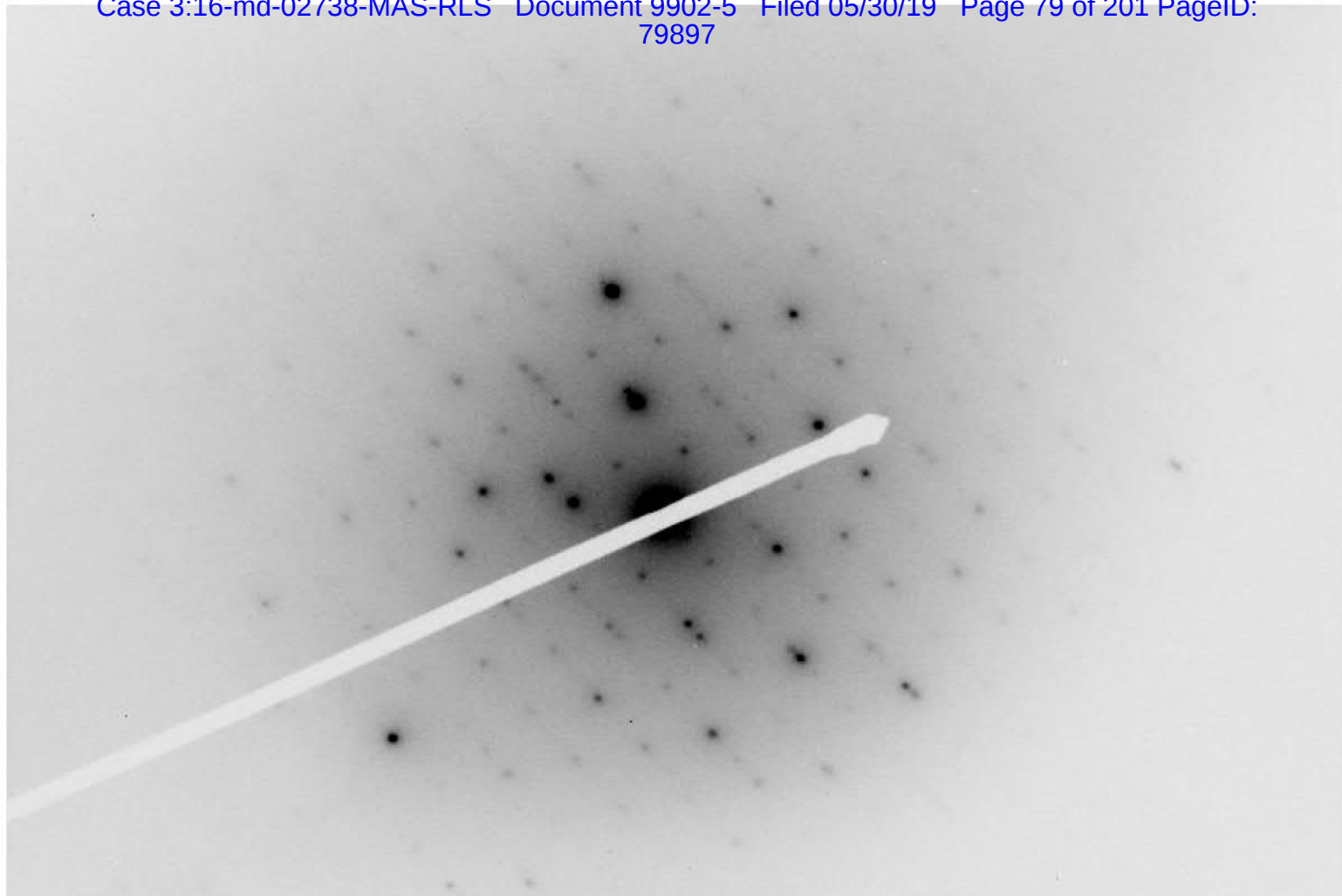




41411

M68503-042-004 Anthophyllite Diffraction 1 @ 50cm

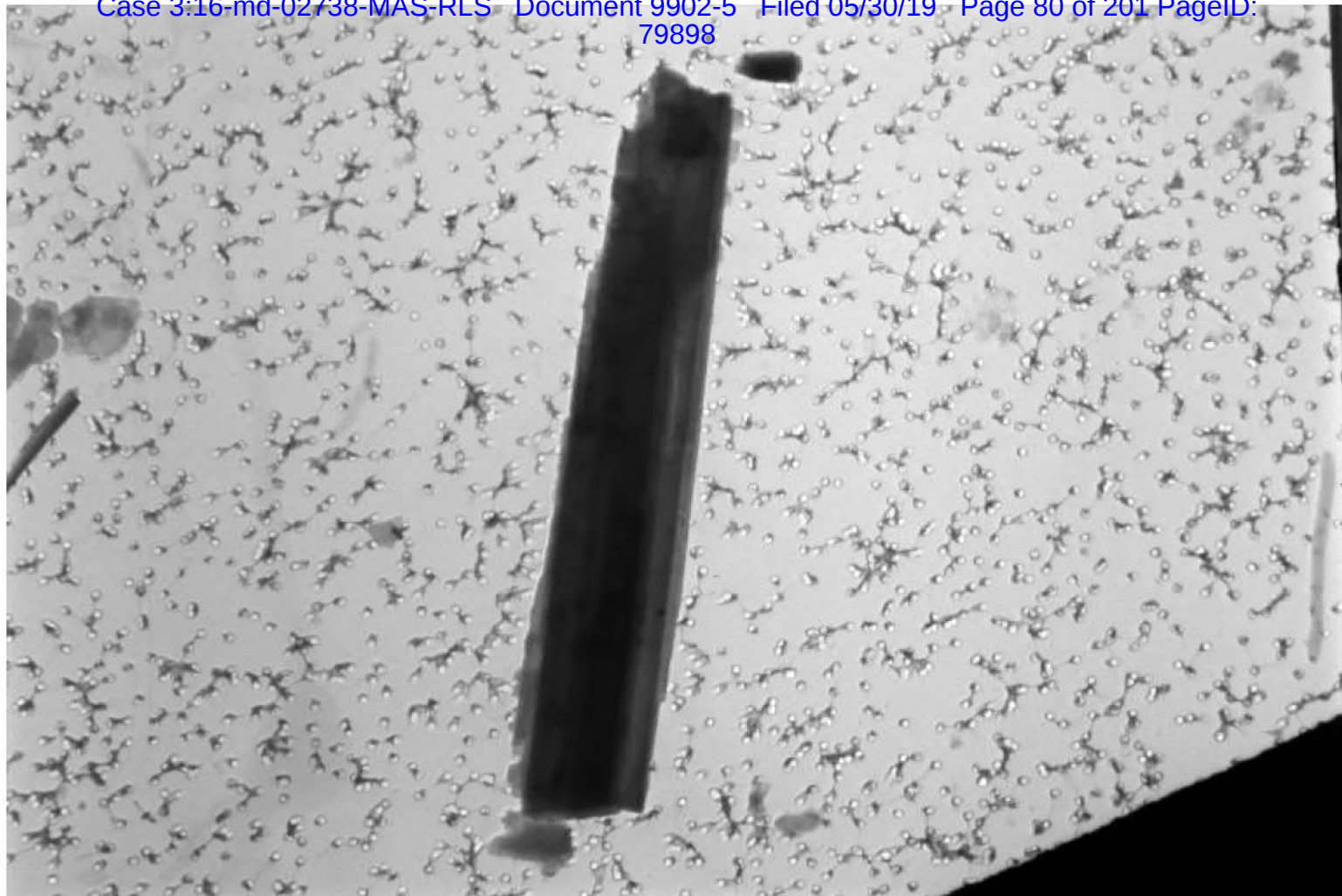
11/1/2018



41412

M68503-042-004 Anthophyllite Diffraction 2 @ 50cm

11/1/2018



41417

M68503-042-004 Anthophyllite (40.0um x 6.0um)

11/1/2018

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-042		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G.O. Area
Date of Analysis	10/31/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.03095			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
NSD	E6					No Fibrous Talc Observed	

Section 15

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503 - 057ISO **Analyst** Paul Hess **Date** 10/29/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0070-10A
Location _____
Type_Mat Johnson's Baby Powder
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight	straight	
Pleochroism	none	none	
Refract Index	1.635/1.620	1.631/1.616	
Sign^	positive	positive	
Extinction	oblique	parallel	
Birefringence	medium	medium	
Melt	no	no	
Fiber Name	Actinolite/Tremolite	Anthophyllite	

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....	_____
Amosite.....	_____
Crocidolite.....	_____
Tremolite/Actinolite.....	< 0.1
Anthophyllite.....	< 0.1

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55	***
_____	_____
_____	_____
_____	_____
_____	_____

NON FIBROUS COMPONENTS

Opaques	X
Talc	X
Mineral grains	X
_____	_____

Binder Description _____

Comments Actinolite/Tremolite and Anthophyllite observed. *** Trace amount fibrous Talc
observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503 - 057BL1 **Analyst** Paul Hess **Date** 10/23/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0070-10A
Location _____
Type_Mat Johnson's Baby Powder (100mg prep)
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

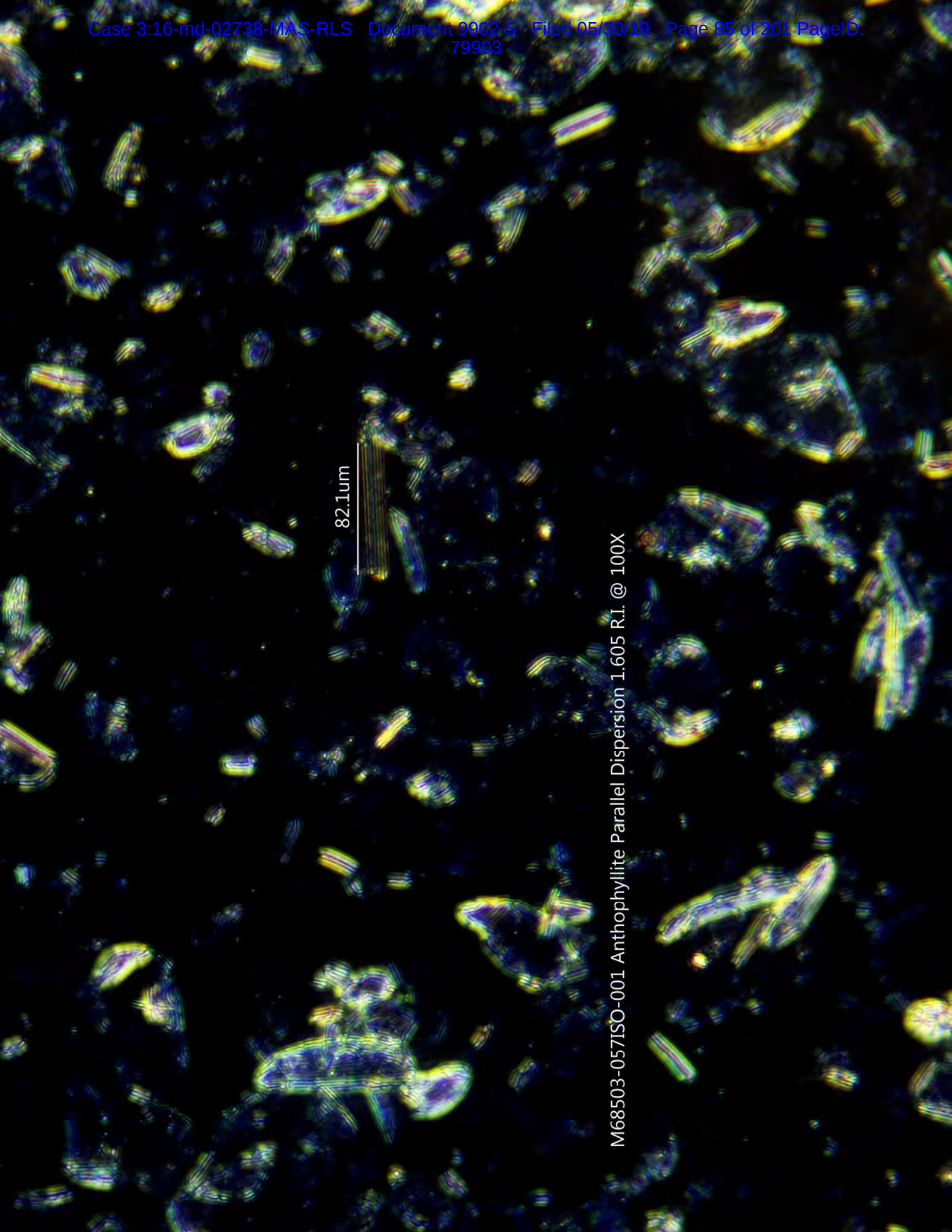
NON FIBROUS COMPONENTS

 Opaques _____ X
 Talc _____ X
 Mineral grains _____ X

Binder Description _____

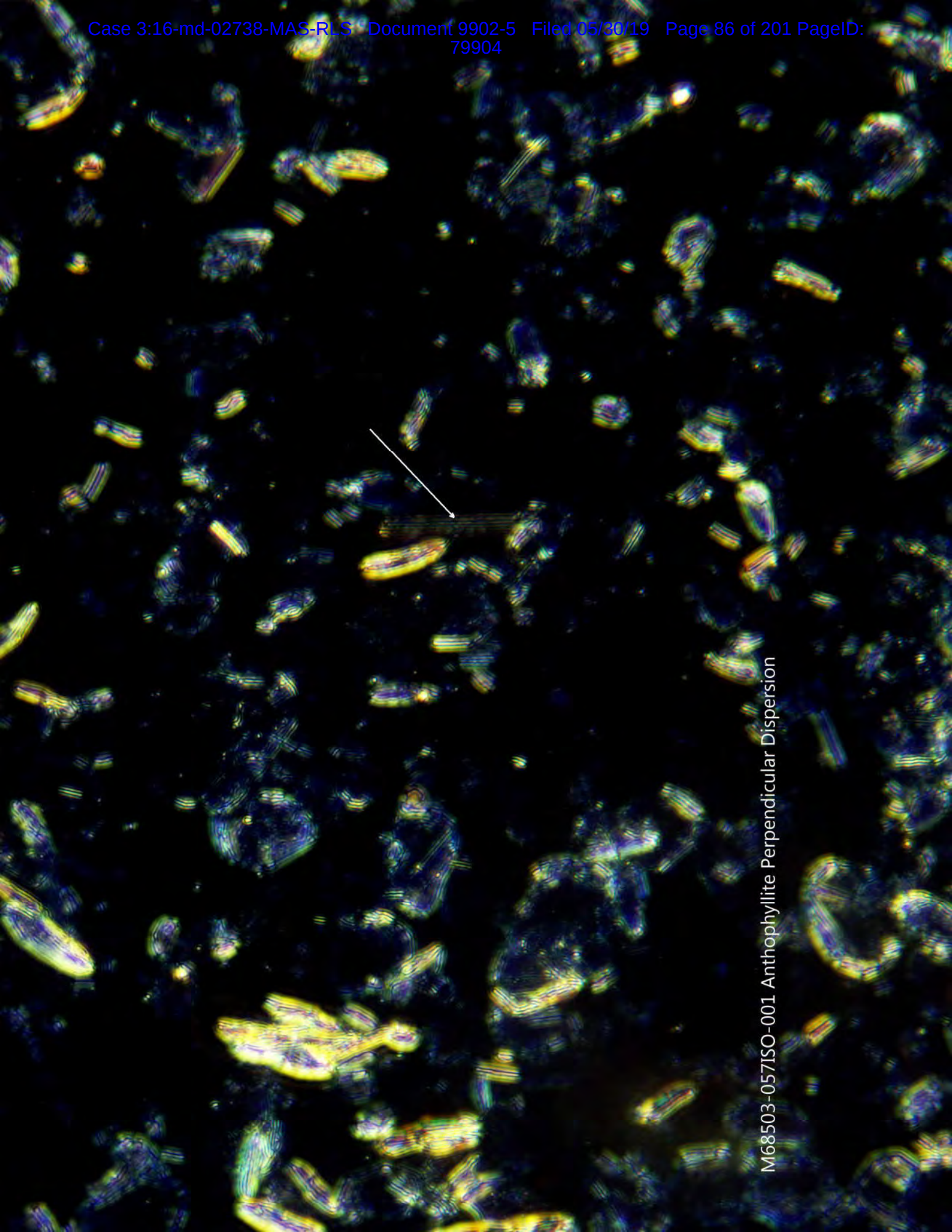
Comments X = Materials detected.

The method detection limit is 1% unless otherwise stated.

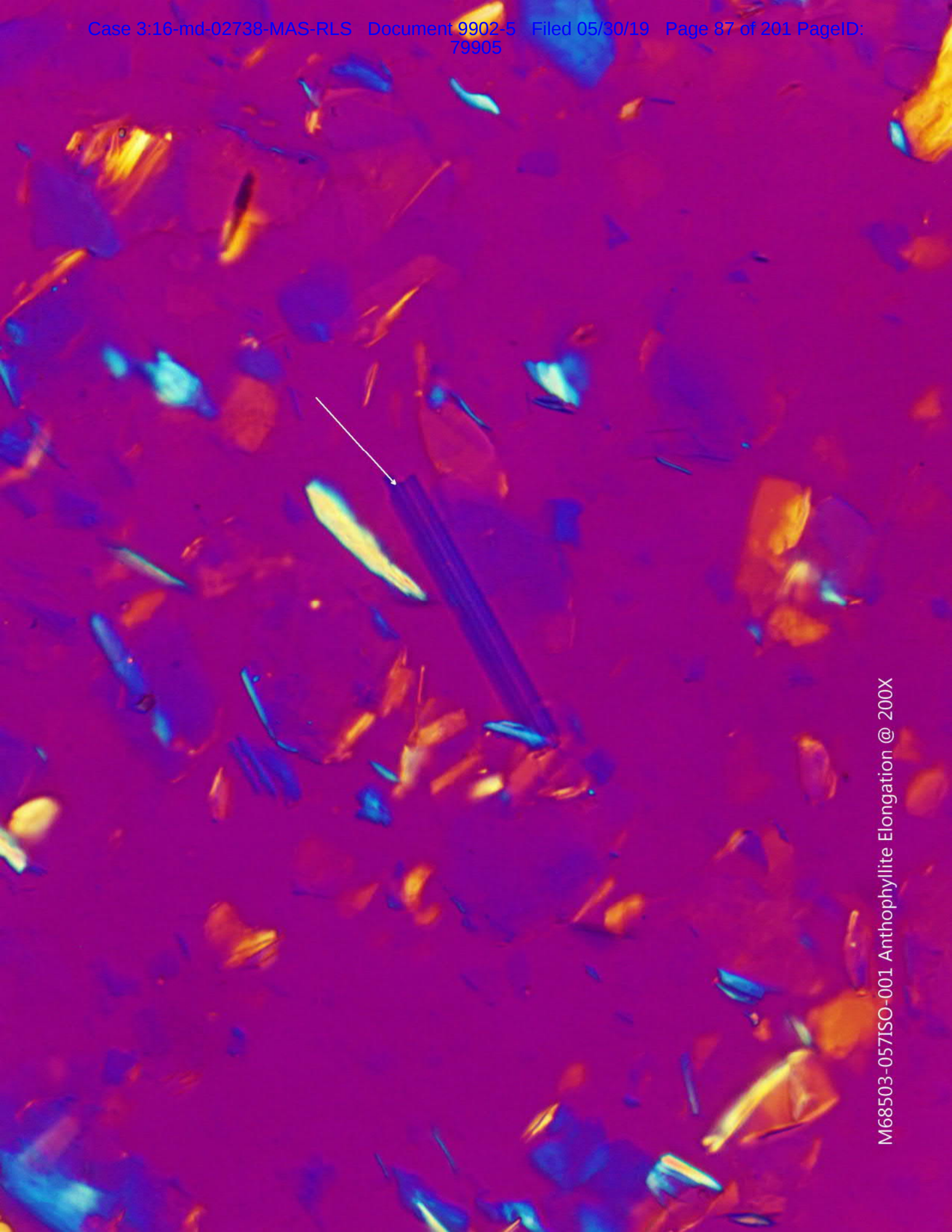


82.1um

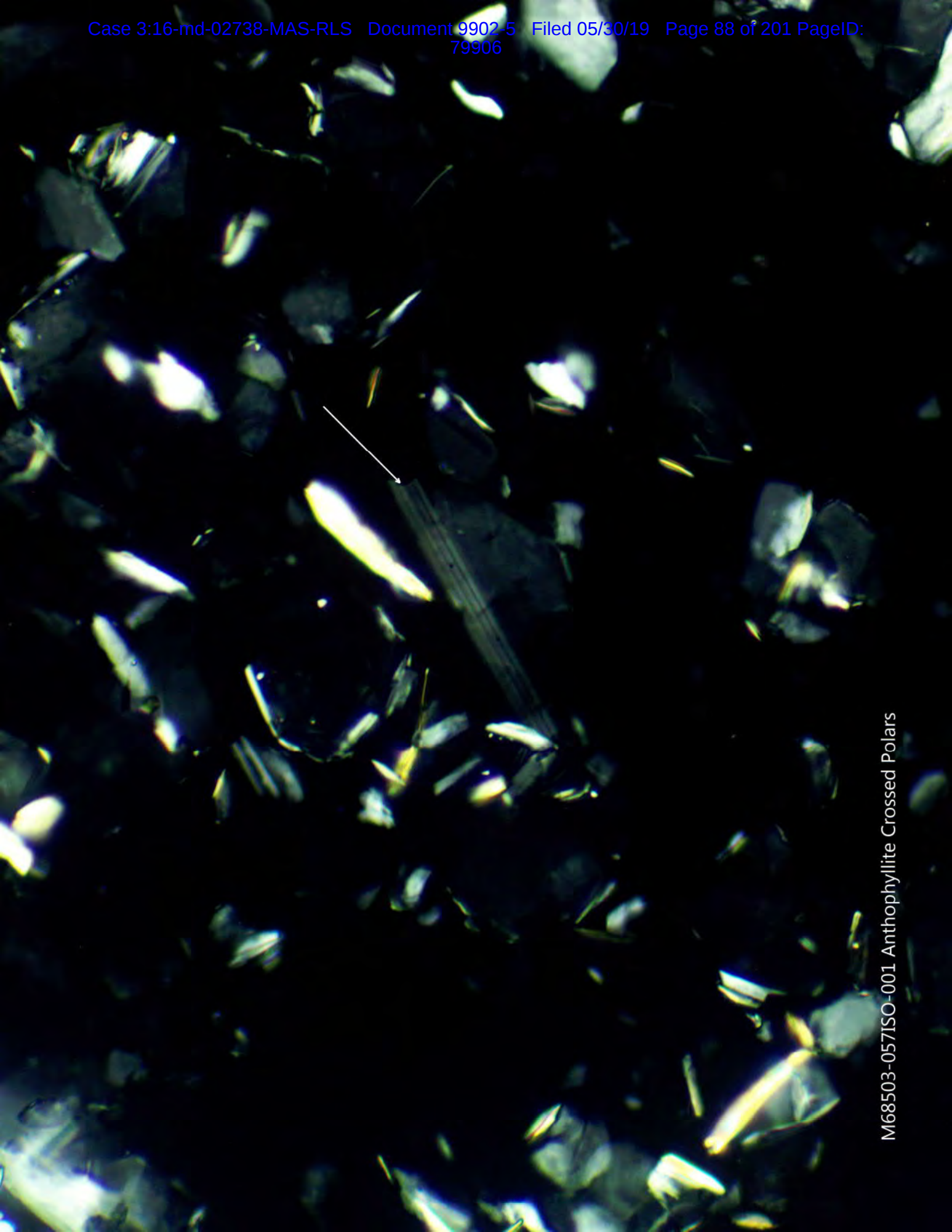
M68503-057ISO-001 Anthophyllite Parallel Dispersion 1.605 R.I. @ 100X

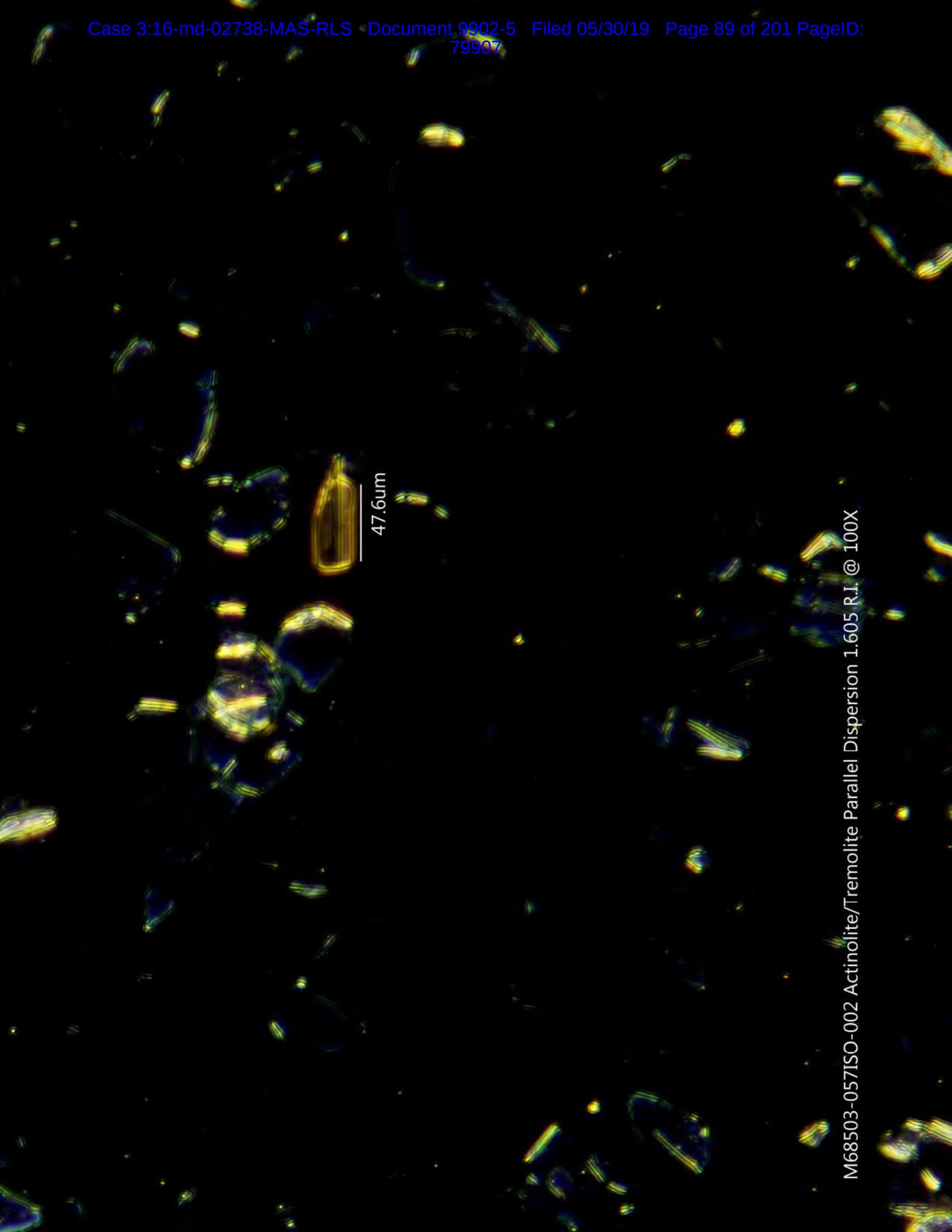


M68503-057ISO-001 Anthophyllite Perpendicular Dispersion

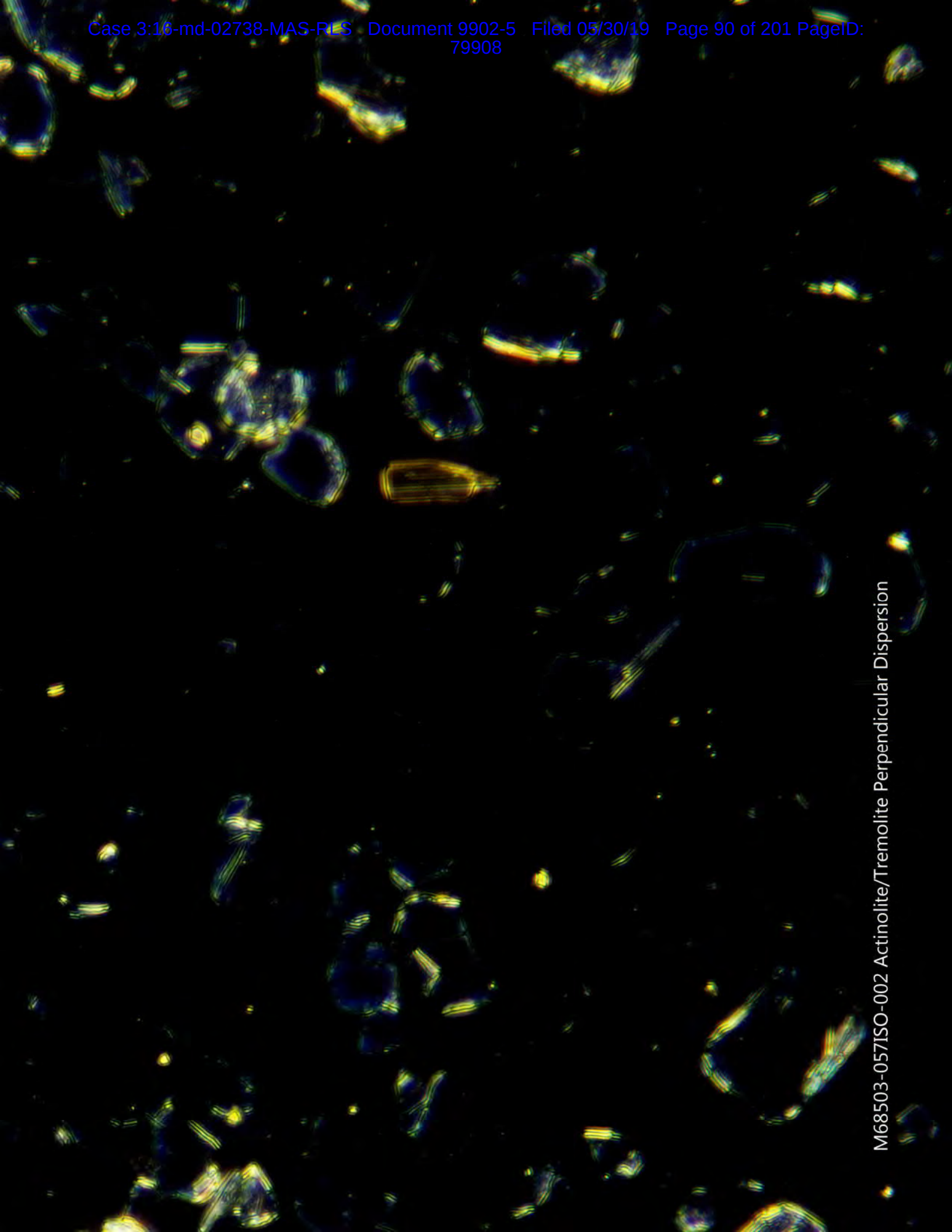


M68503-057ISO-001 Anthophyllite Elongation @ 200X





M68503-057ISO-002 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



M68503-057ISO-002 Actinolite/Tremolite Perpendicular Dispersion



M68503-057ISO-002 Actinolite/Tremolite Elongation @ 200X



M68503-057ISO-002 Actinolite/Tremolite Crossed Polars

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-057		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G. O. Area
Date of Analysis	10/29/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02182			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	C6-A1							
NSD	A2							
NSD	A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	A10							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
1	F9	Bundle	Tremolite	8	1.5	5.3	X	X
NSD	F10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-057		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G. O. Area
Date of Analysis	10/29/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02182			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	C7-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
NSD	J8							
NSD	J9							
NSD	J10							
NSD	I1							
NSD	I2							
NSD	I3							
NSD	I4							
NSD	I5							
NSD	I6							
NSD	I7							
NSD	I8							
NSD	I9							
NSD	I10							
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							
NSD	H9							
NSD	H10							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							

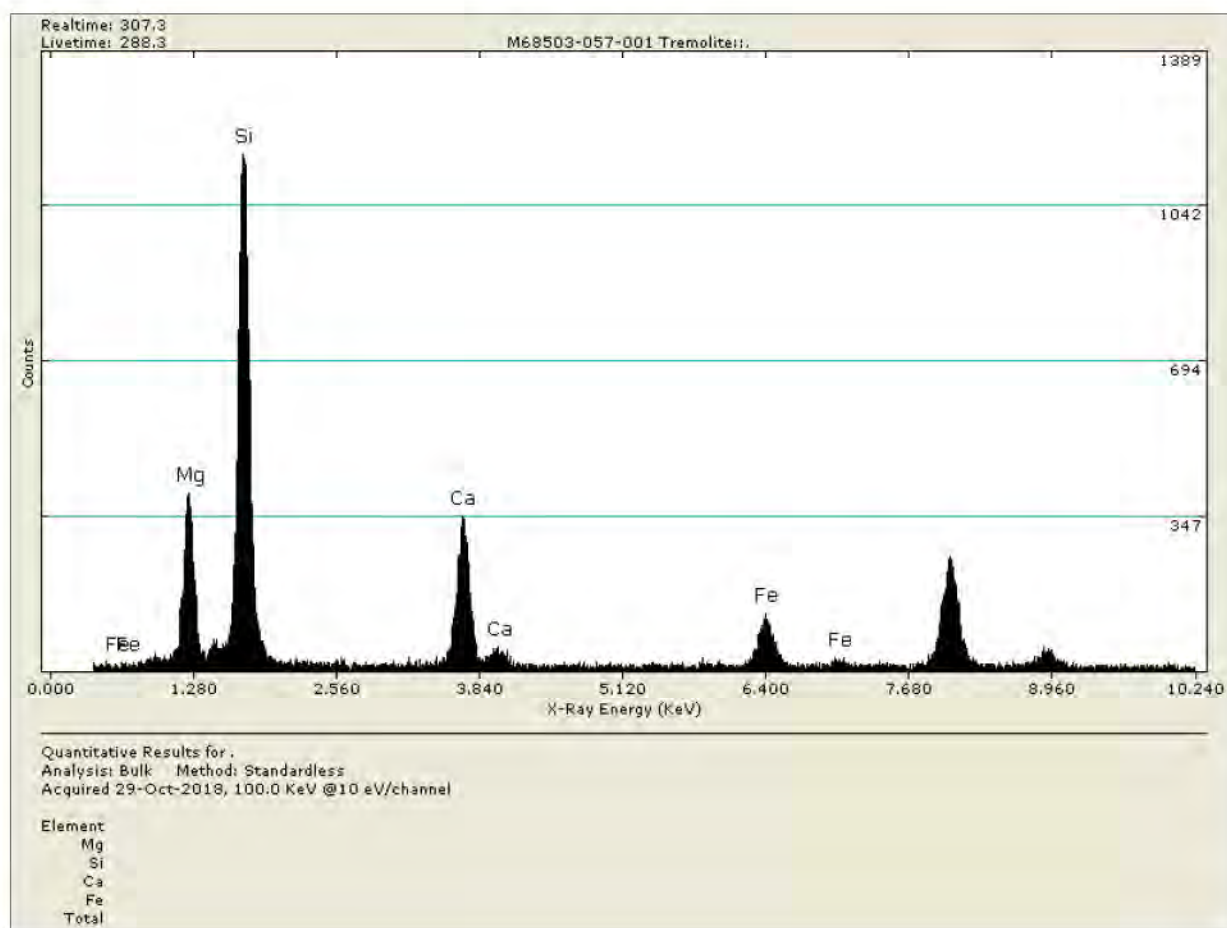
TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-057		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G. O. Area
Date of Analysis	10/29/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02182			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm²			1.103

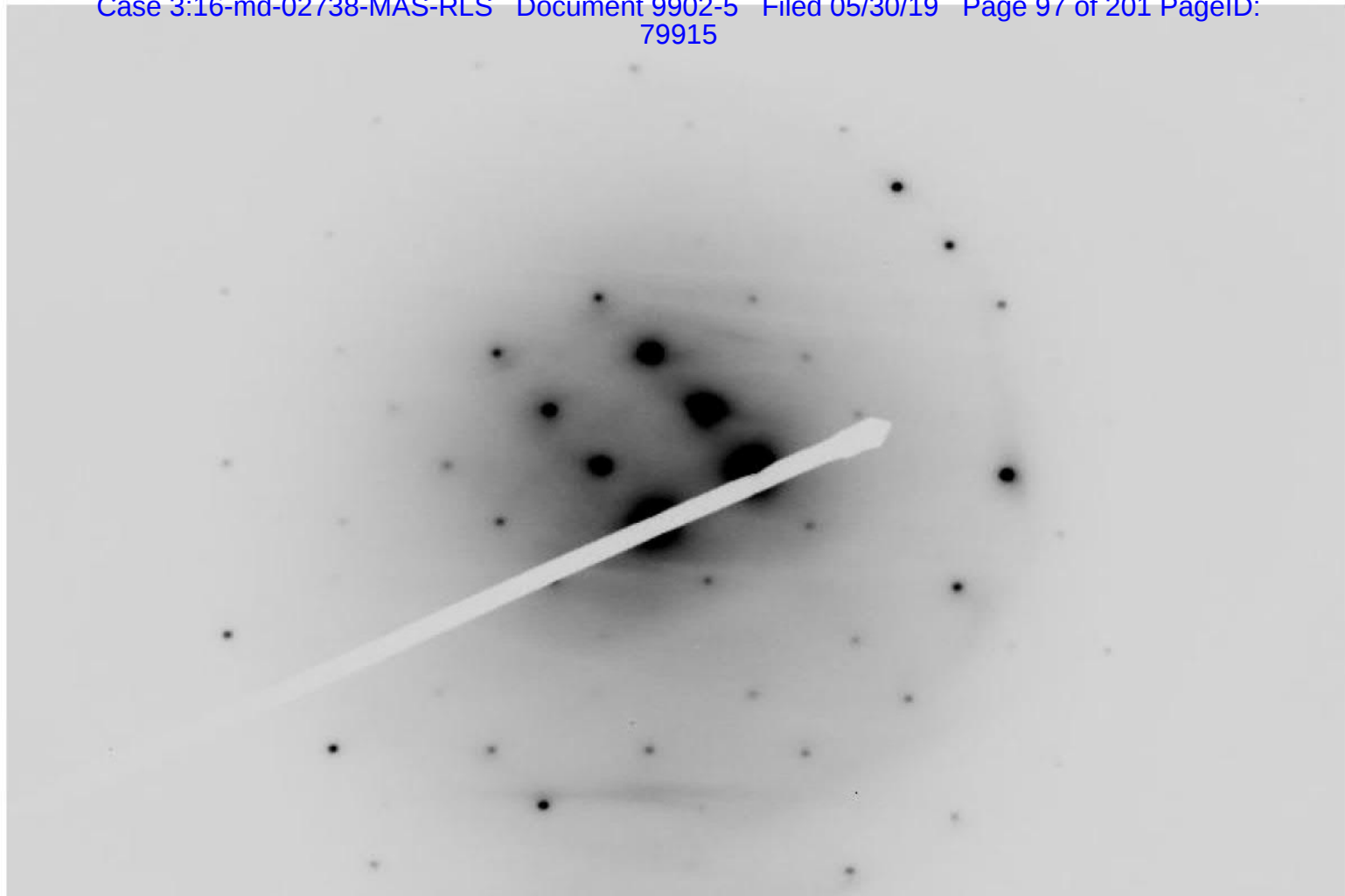
Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
--------	--------------	-----------	------------------	--------	-------	-------	------	-----

Org. Sample Wt.	Sample Wt. Post HL Separation	
0.02182	0.02182	g
Percent of Orig. Post Separation	100	(%)

Wt. Of Sample Analyzed	0.00011962	g
Filter size	201.1	mm ²
Number of Structures Counted	1	Str.
Structures per Gram of Sample	8.36E+03	Str./g

Detection Limit	8.36E+03	Str./g
Analytical Sensitivity	8.36E+03	Str./g

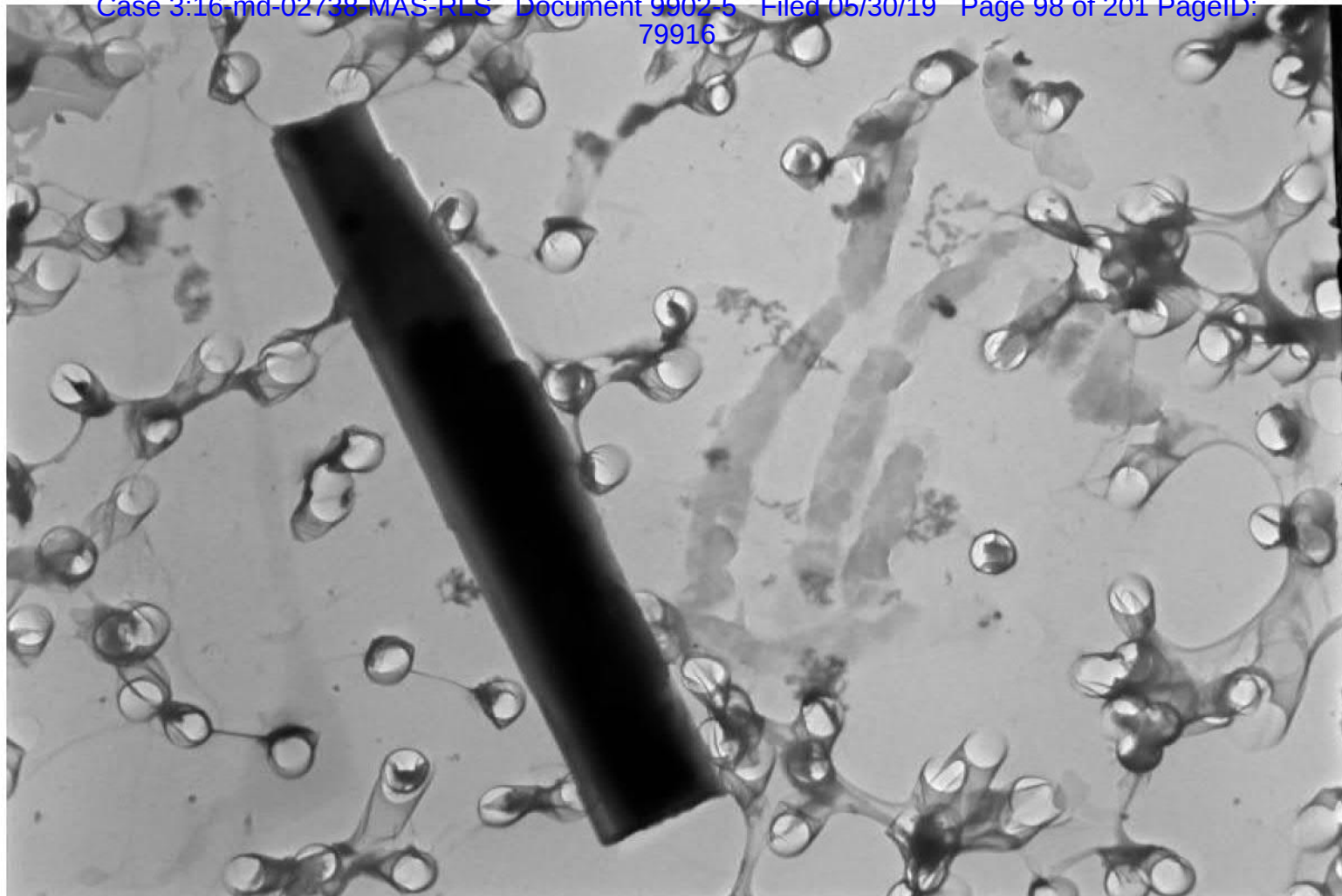




41358

M68503-057-001 Tremolite Diffraction @ 50cm

10/29/2018



41357

M68503-057-001 Tremolite (8.0um x 1.5um)

10/29/2018

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-057		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G.O. Area
Date of Analysis	10/29/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.02182			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
NSD	C6					No Fibrous Talc Observed	

Section 16

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503 - 020ISO **Analyst** Paul Hess **Date** 10/30/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0060-53A
Location _____
Type_Mat Johnson's Baby Powder
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight	straight	
Pleochroism	none	none	
Refract Index	1.624/1.611	1.633/1.621	
Sign^	positive	positive	
Extinction	parallel	oblique	
Birefringence	medium	medium	
Melt	no	no	
Fiber Name	Anthophyllite	Actinolite/Tremolite	

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....	_____
Amosite.....	_____
Crocidolite.....	_____
Tremolite/Actinolite.....	< 0.1
Anthophyllite.....	< 0.1

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55	***
_____	_____
_____	_____
_____	_____
_____	_____

NON FIBROUS COMPONENTS

Opagues	X
Talc	X
Mineral grains	X
_____	_____

Binder Description _____

Comments Actinolite/Tremolite and Anthophyllite asbestos observed. Actinolite/Tremolite cleavage fragments/particles exhibiting <3-1 length-width ratio observed. *** Trace amount of fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503 - 020BL1 **Analyst** Paul Hess **Date** 10/25/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0060-53A
Location _____
Type_Mat Johnson's Baby Powder (100mg prep)
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight		
Pleochroism	none		
Refract Index	1.635/1.620		
Sign^	positive		
Extinction	oblique		
Birefringence	medium		
Melt	no		
Fiber Name	Actinolite/Tremolite		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

<0.1

OTHER FIBROUS COMPONENTS

NON FIBROUS COMPONENTS

Opaques
Talc
Mineral grains

X

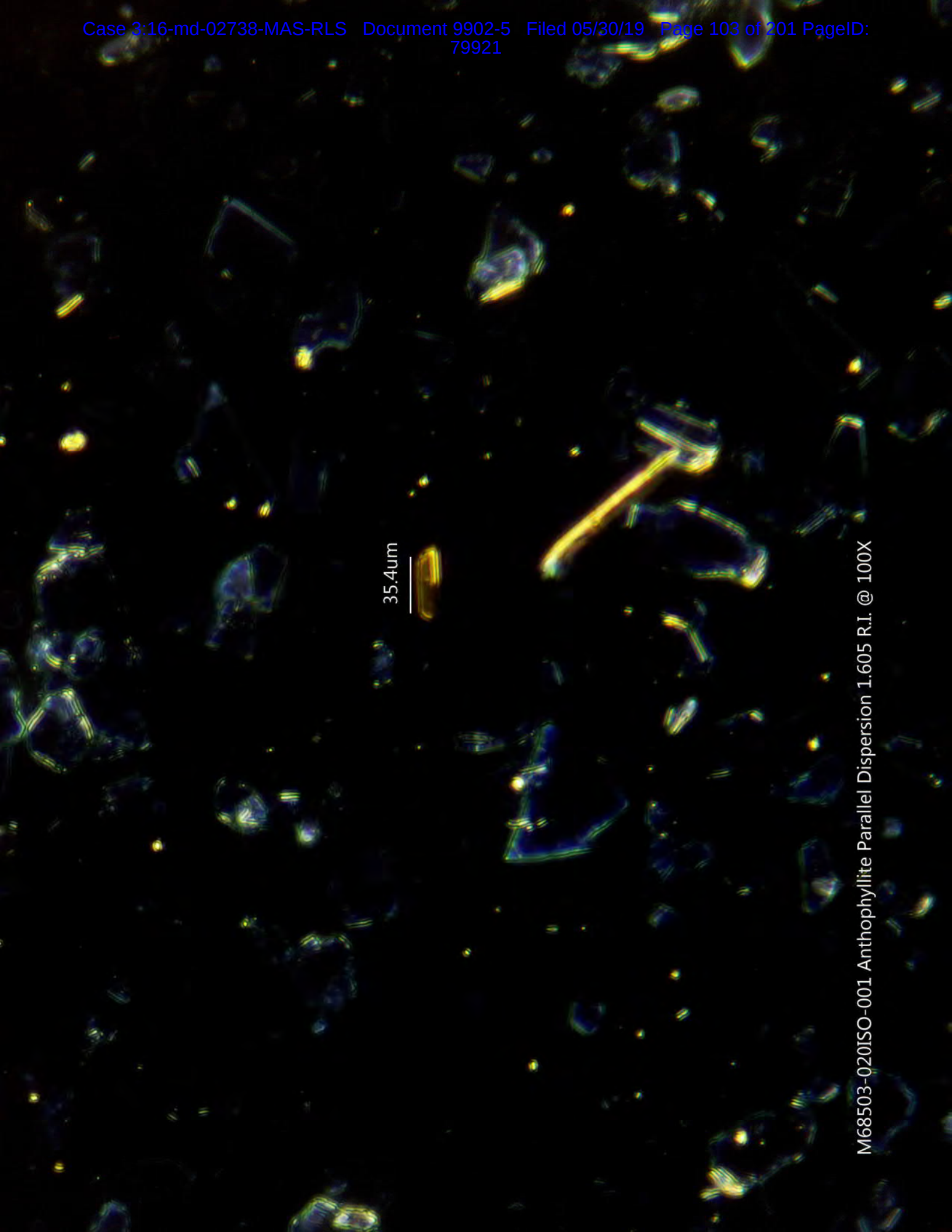
X

X

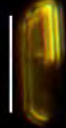
Binder Description _____

Comments Actinolite/Tremolite asbestos observed. X = Materials detected.

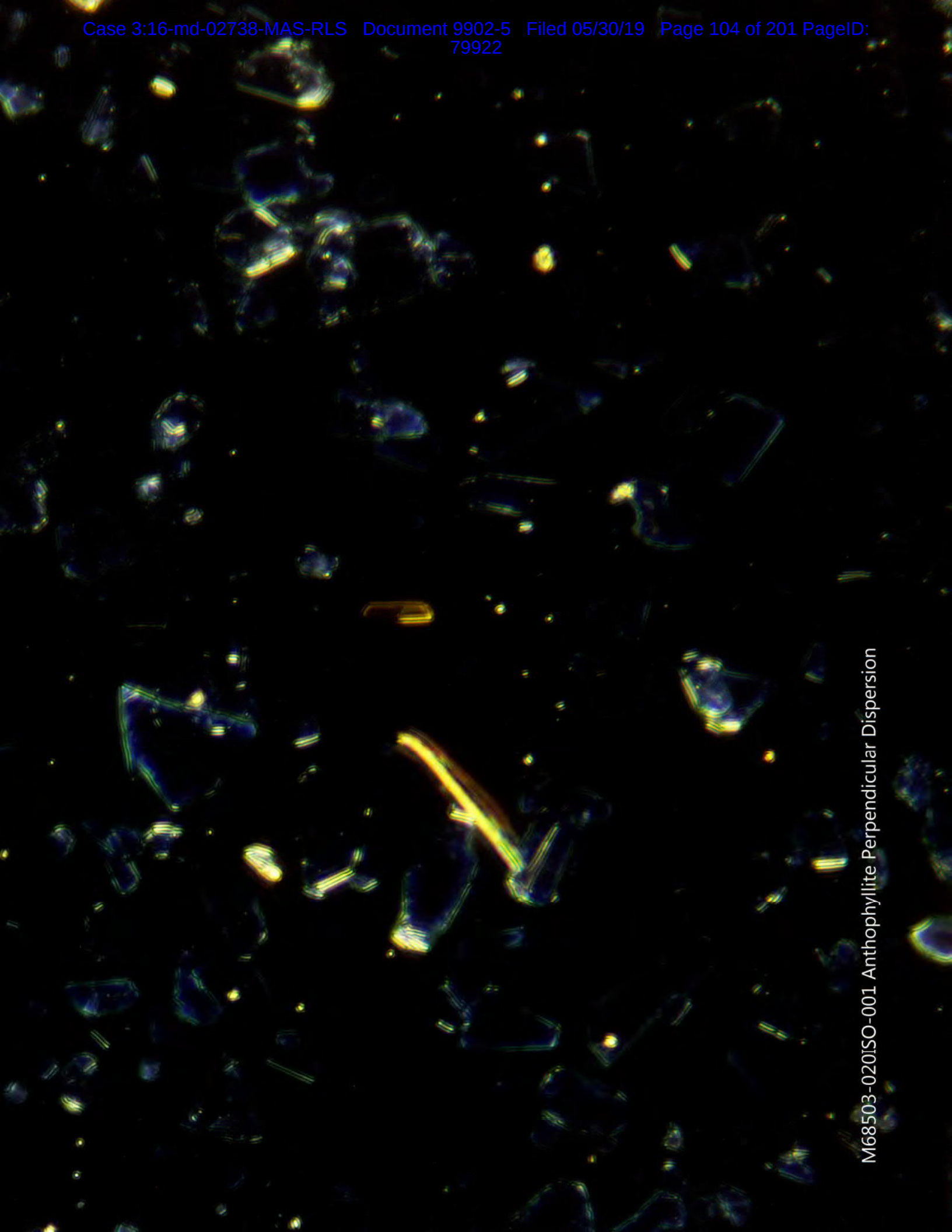
The method detection limit is 1% unless otherwise stated.



35.4um

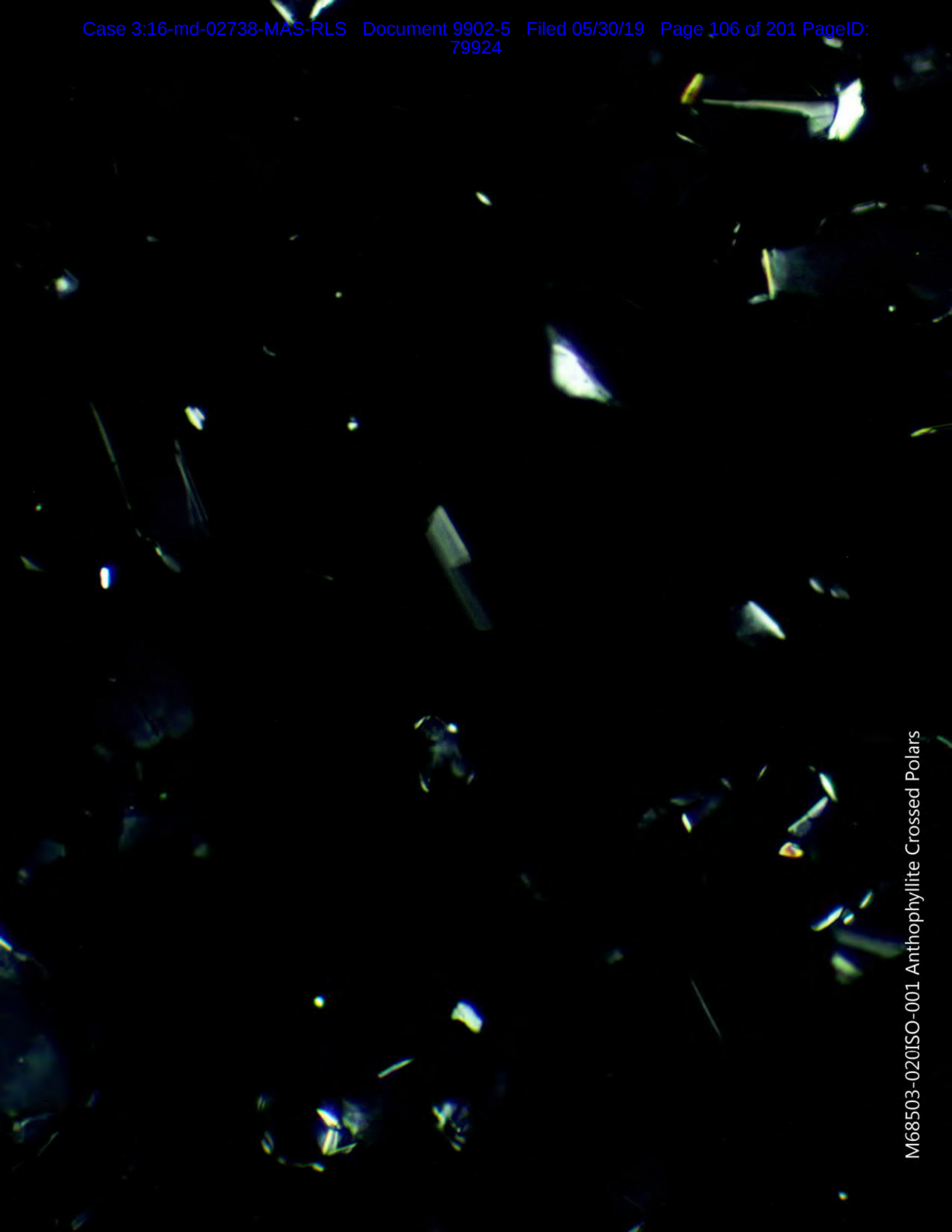


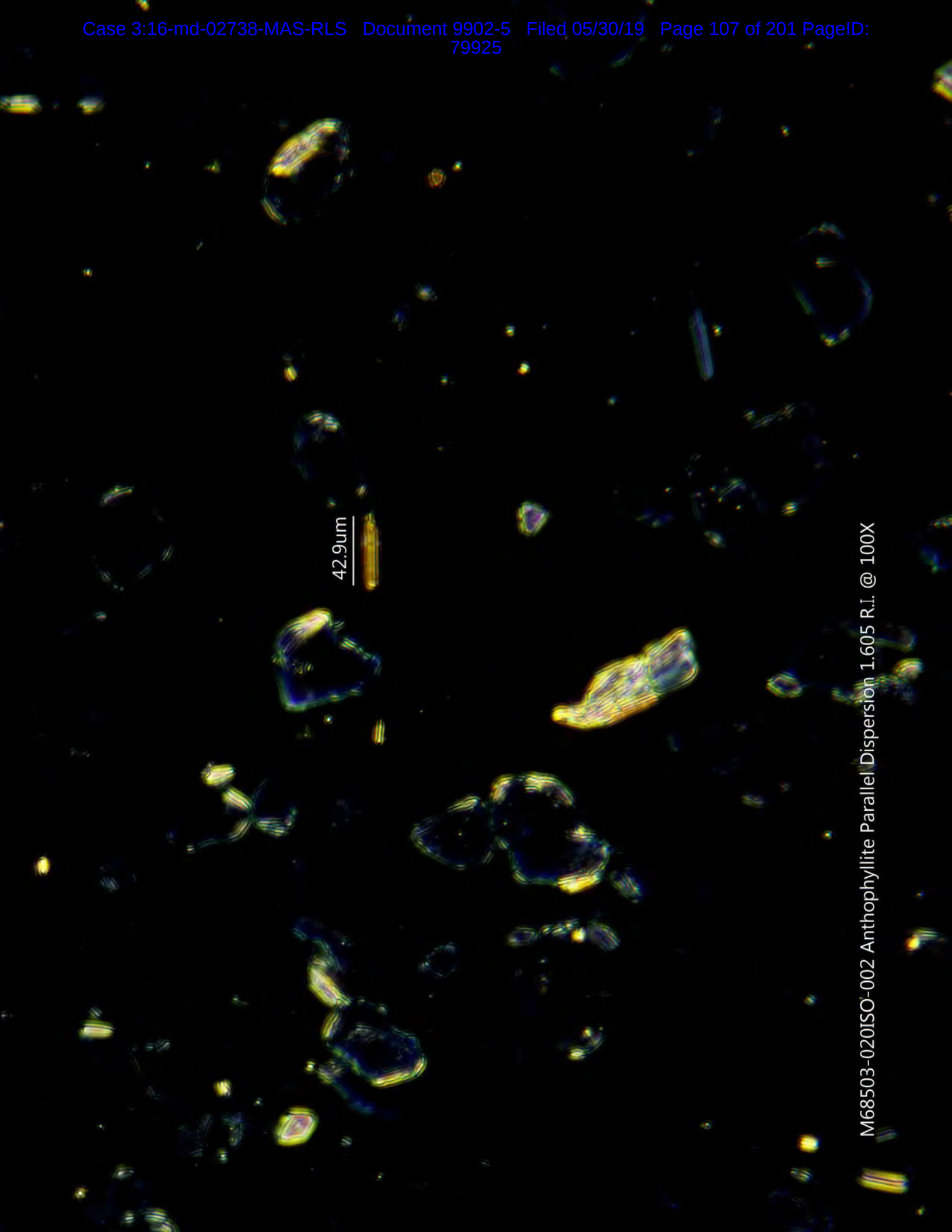
M68503-020ISO-001 Anthophyllite Parallel Dispersion 1.605 R.I. @ 100X



M68503-020ISO-001 Anthophyllite Perpendicular Dispersion

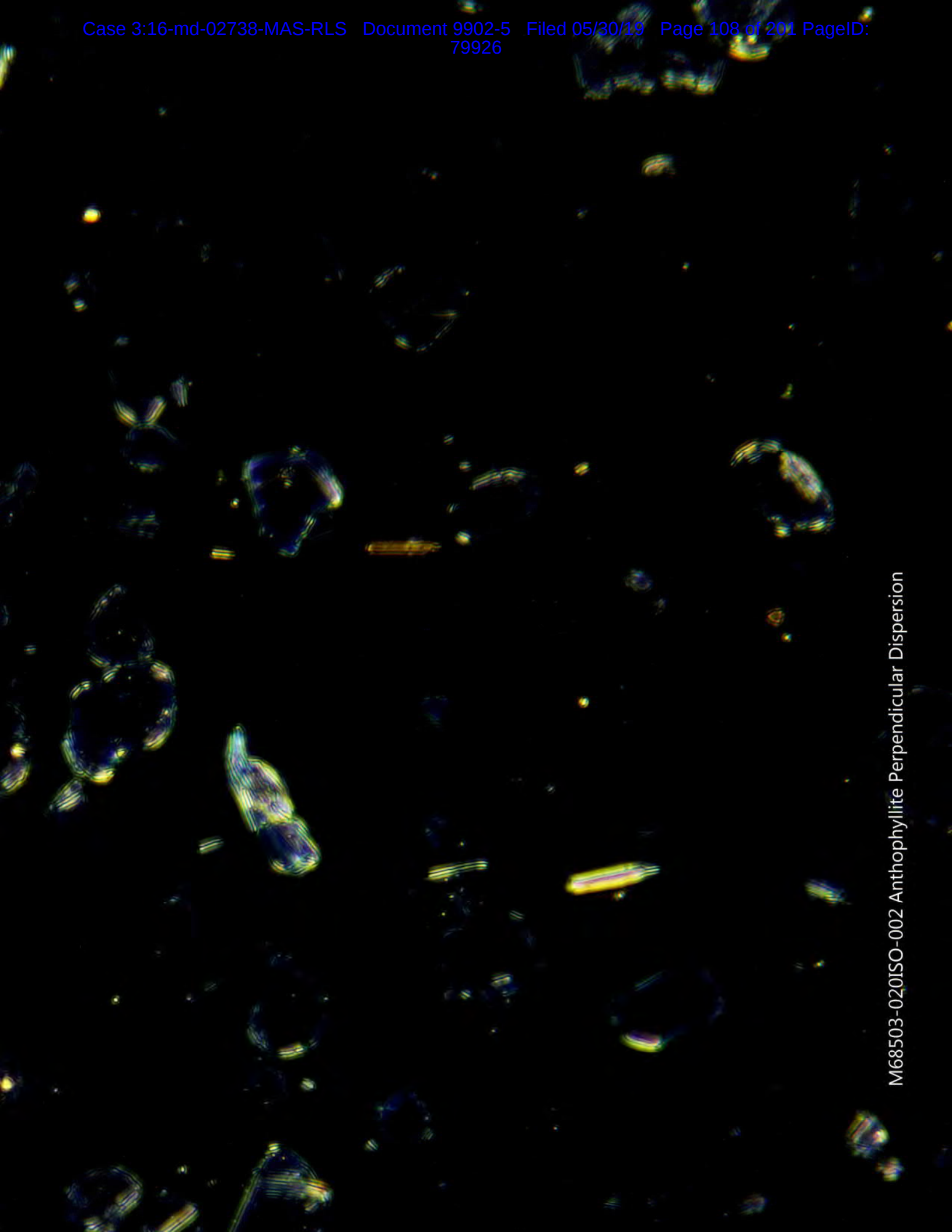


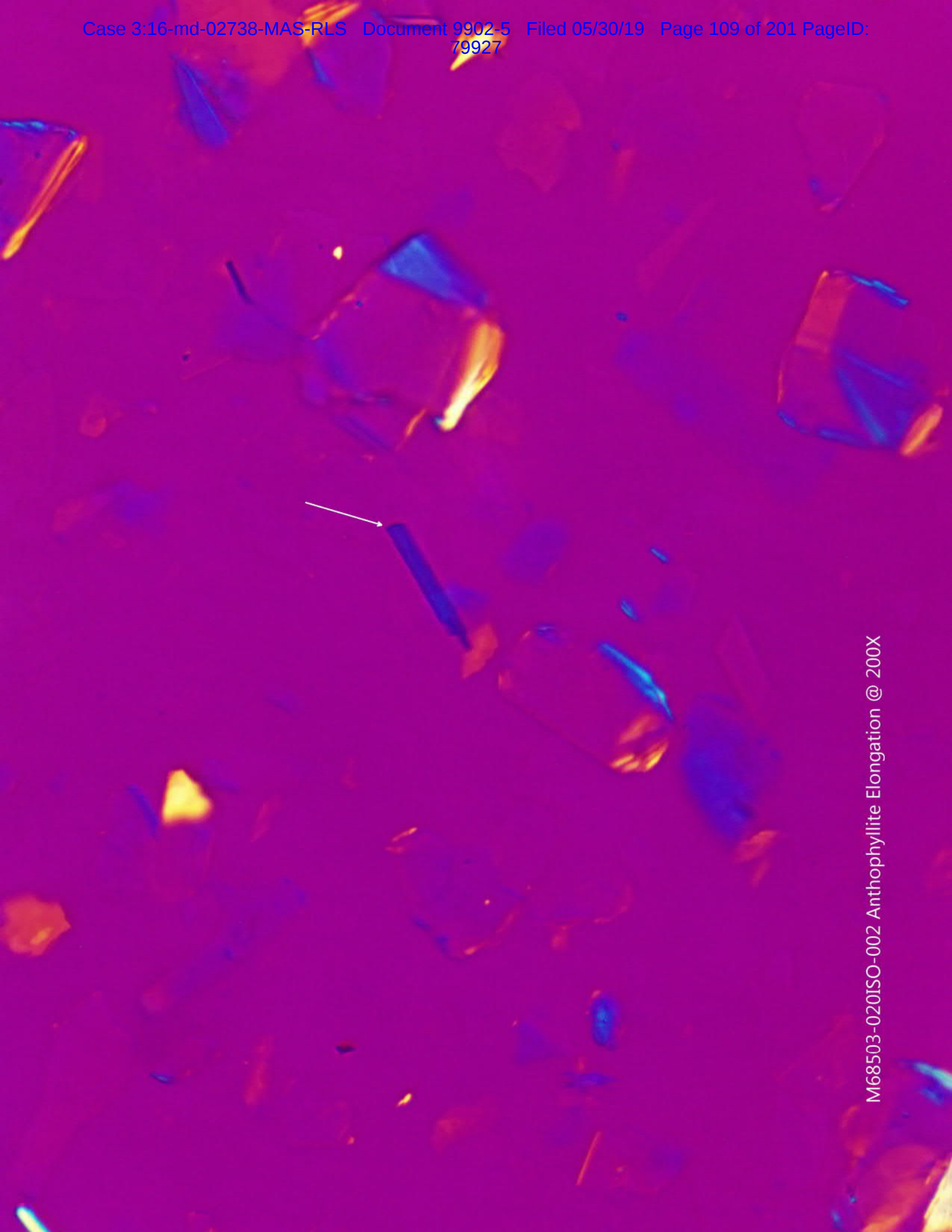




42.9µm

M68503-020ISO-002 Anthophyllite Parallel Dispersion 1.605 R.I. @ 100X

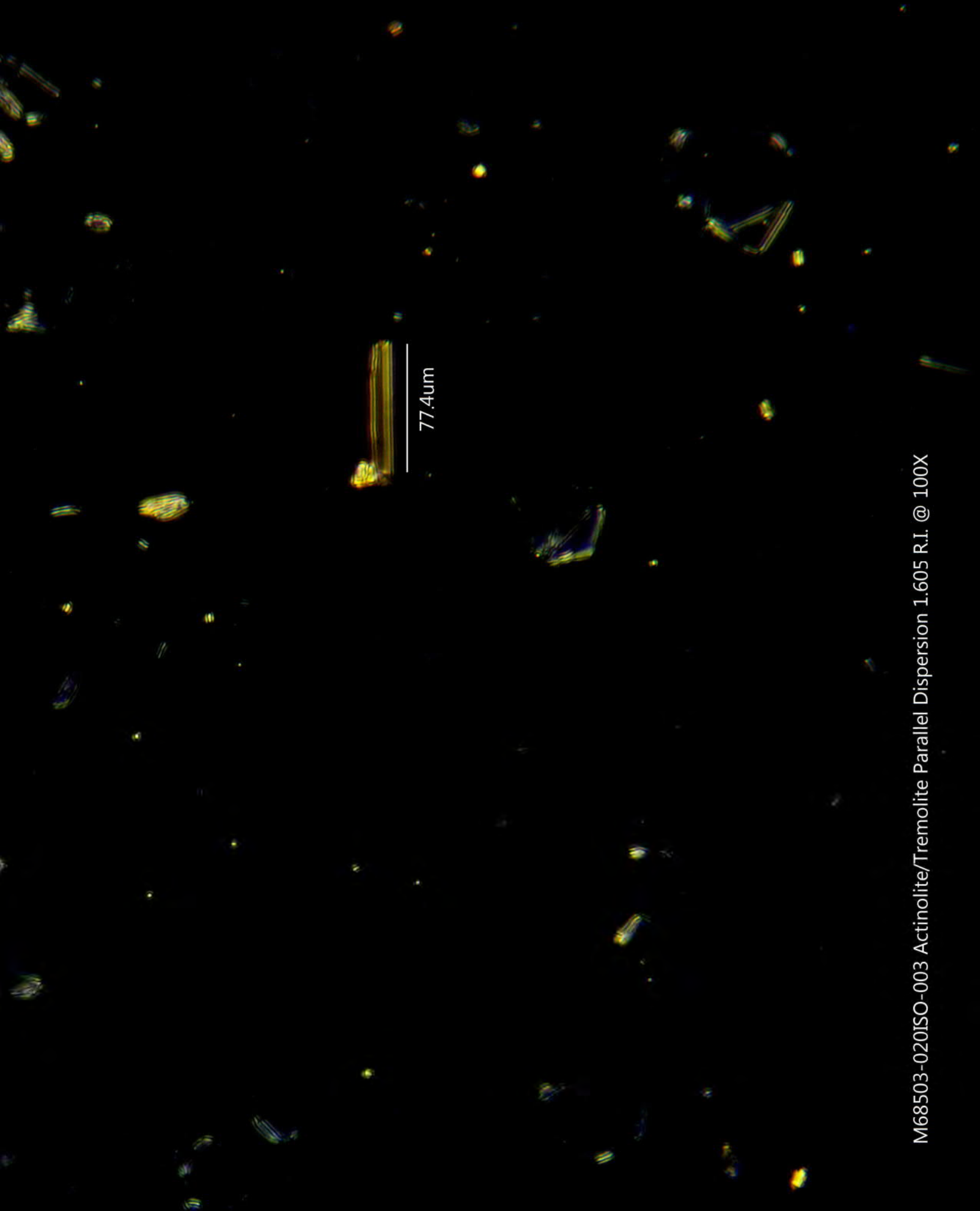


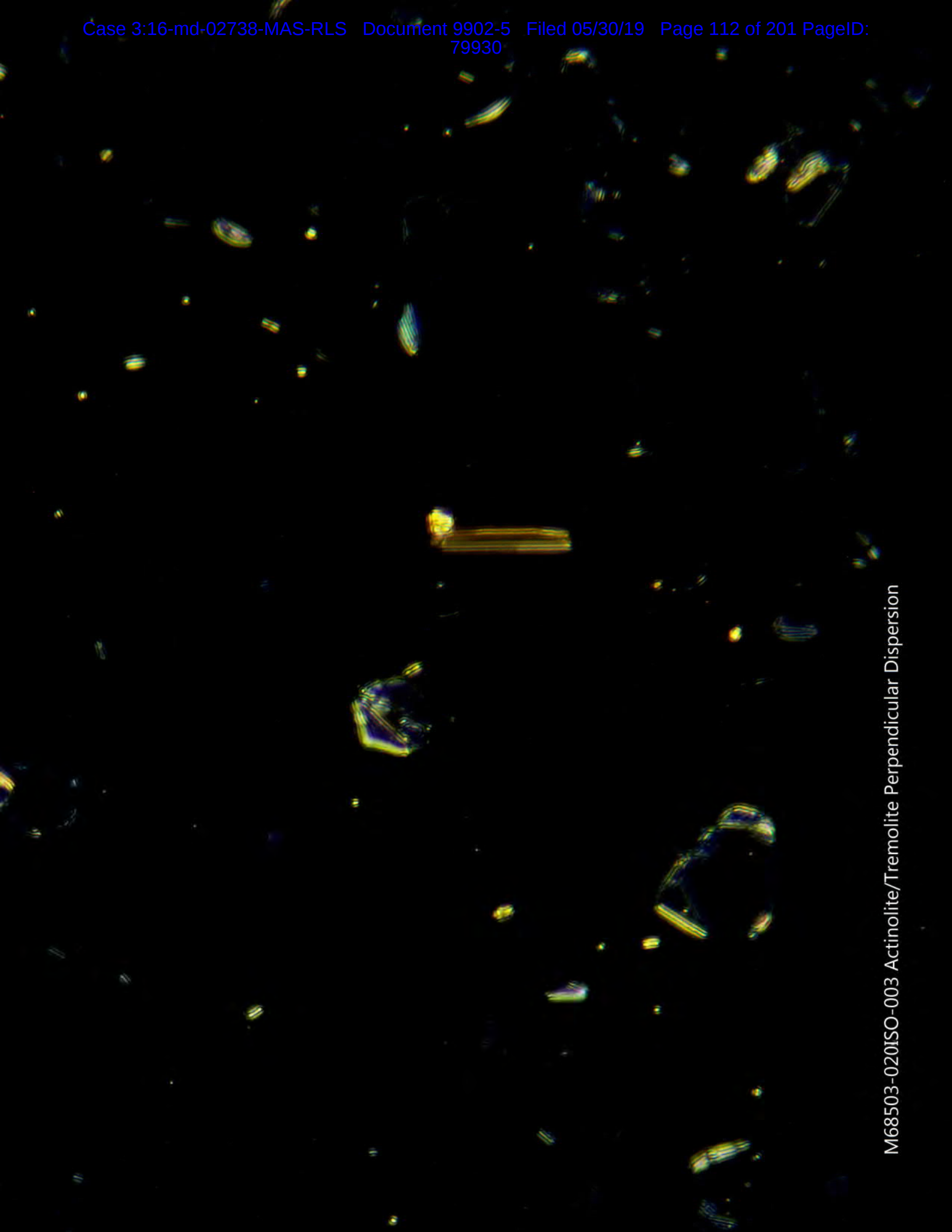


M68503-02ISO-002 Anthophyllite Elongation @ 200X



M68503-020ISO-002 Anthophyllite Crossed Polars





M68503-020ISO-003 Actinolite/Tremolite Perpendicular Dispersion

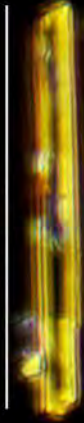


M68503-020ISO-003 Actinolite/Tremolite Elongation @ 200X

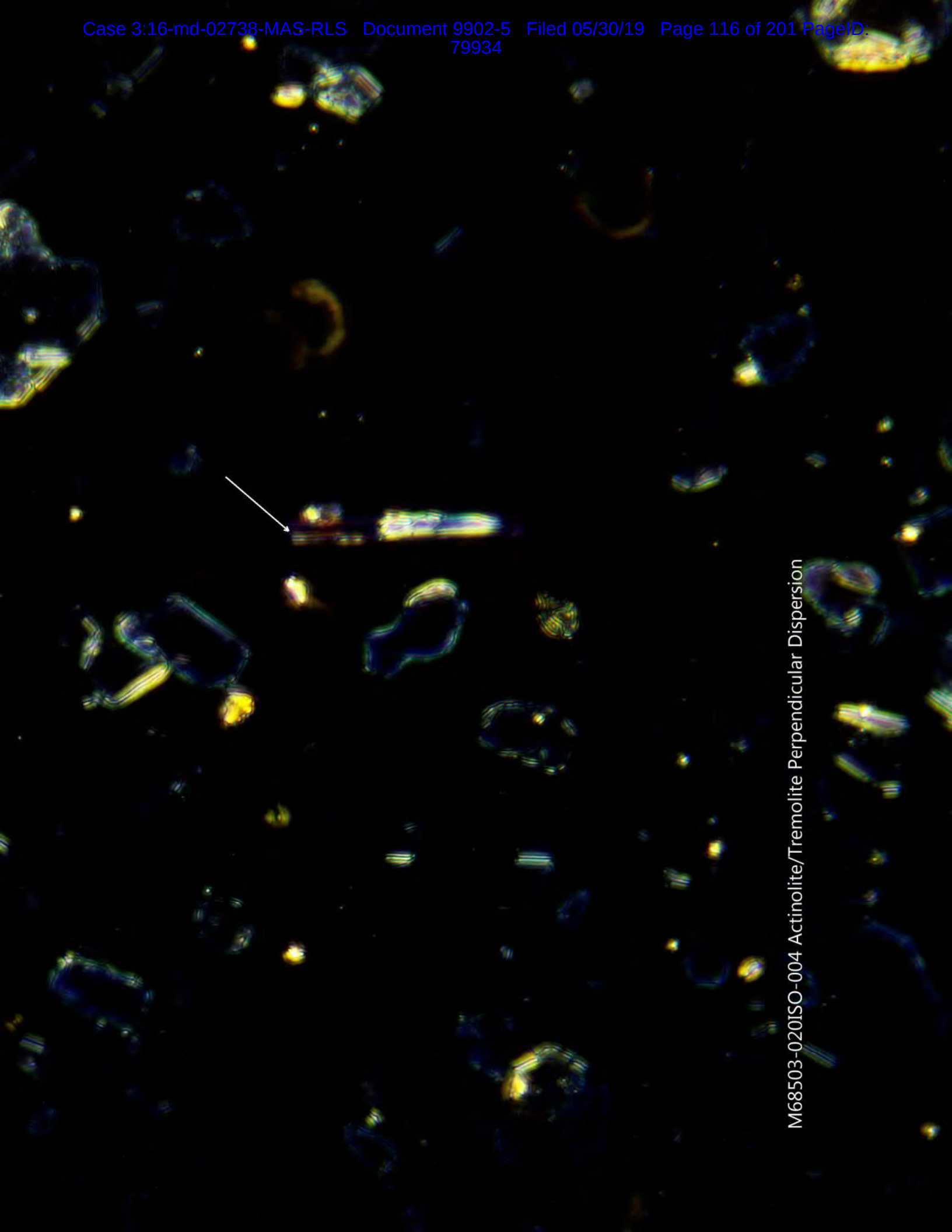


M68503-020ISO-003 Actinolite/Tremolite Crossed Polars

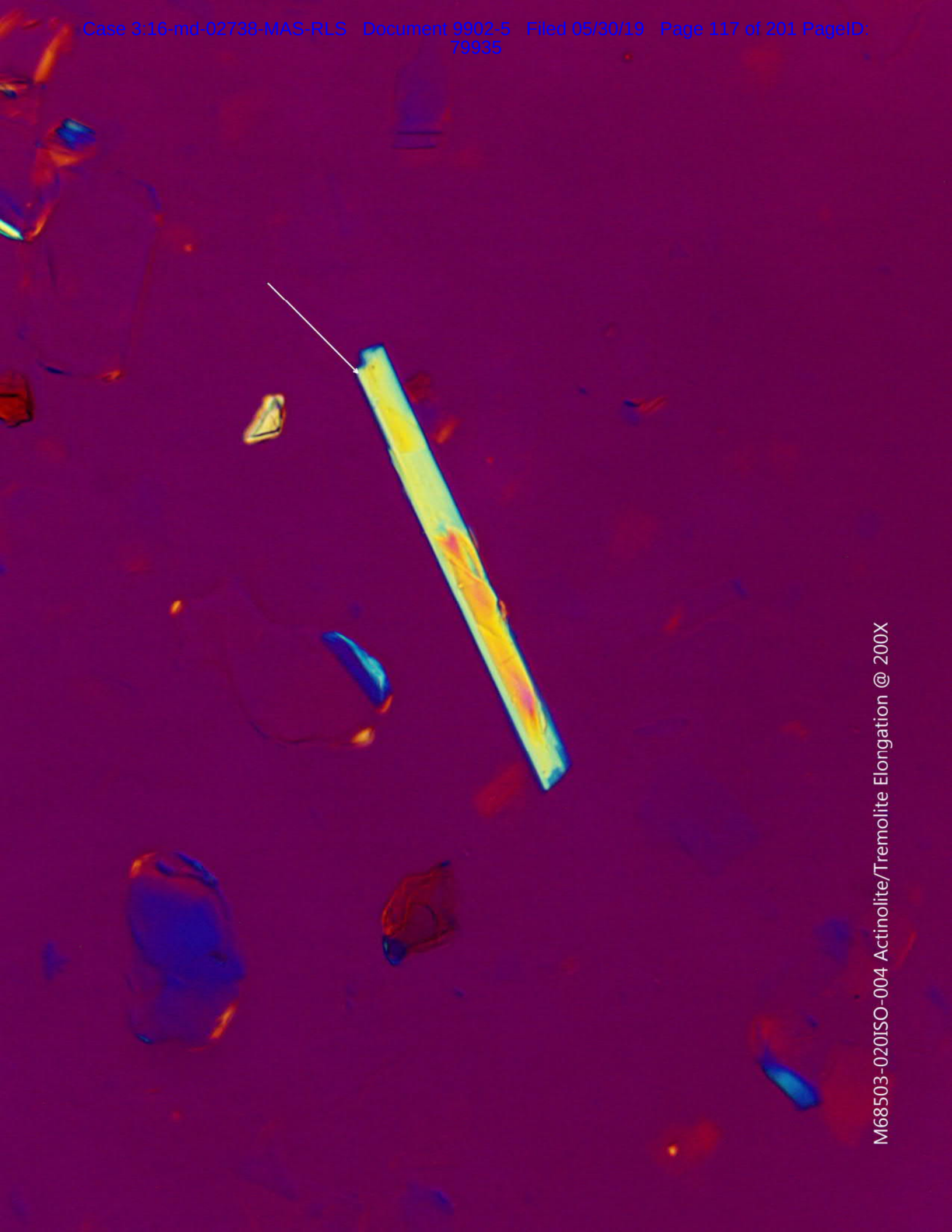
146.5um



M68503-020ISO-004 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



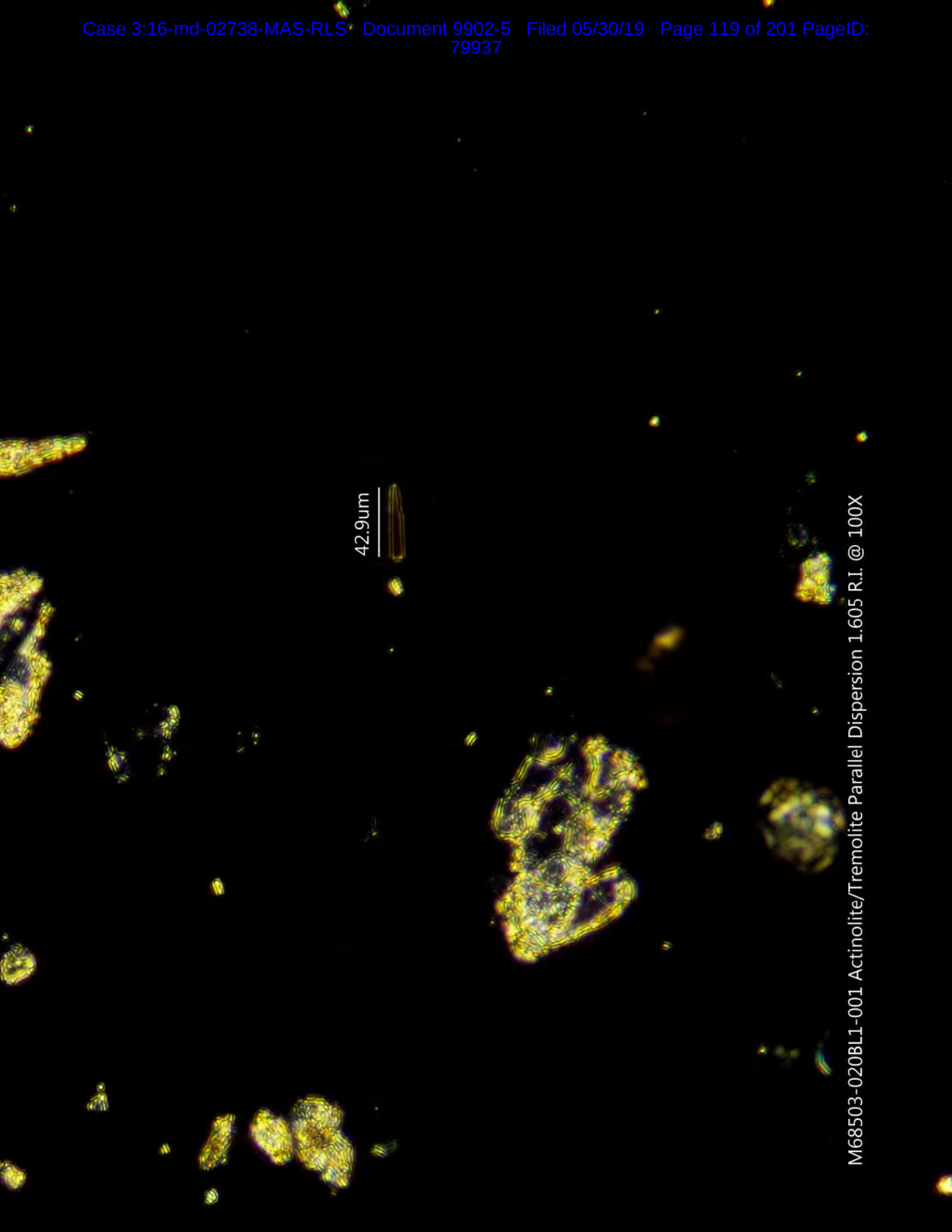
M68503-020ISO-004 Actinolite/Tremolite Perpendicular Dispersion



M68503-020ISO-004 Actinolite/Tremolite Elongation @ 200X

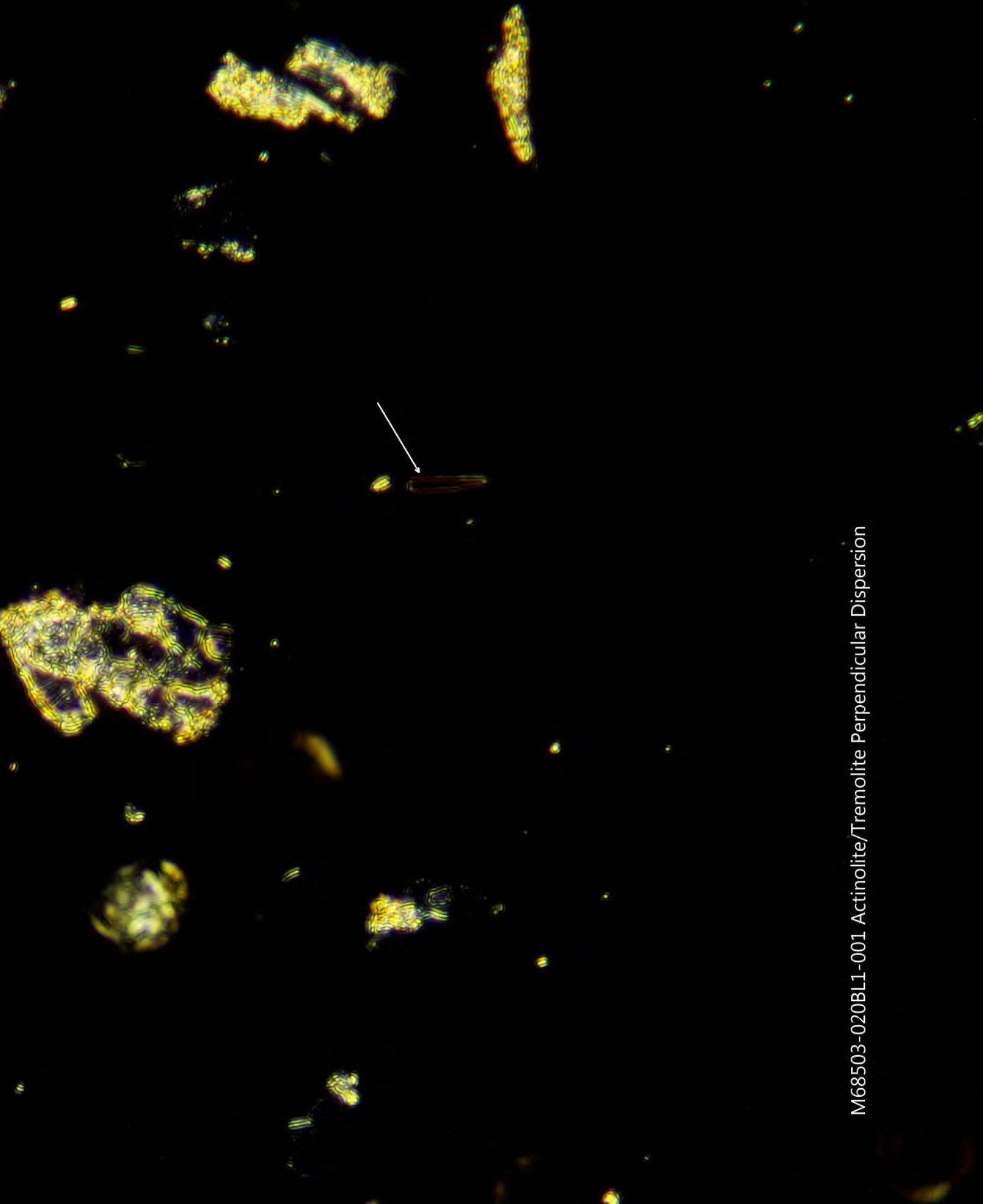


M68503-020ISO-004 Actinolite/Tremolite Crossed Polars

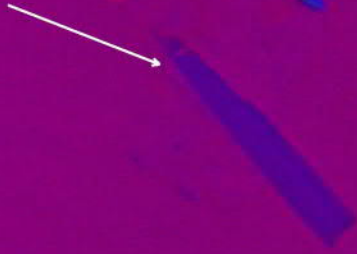


42.9um

M68503-020BL1-001 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



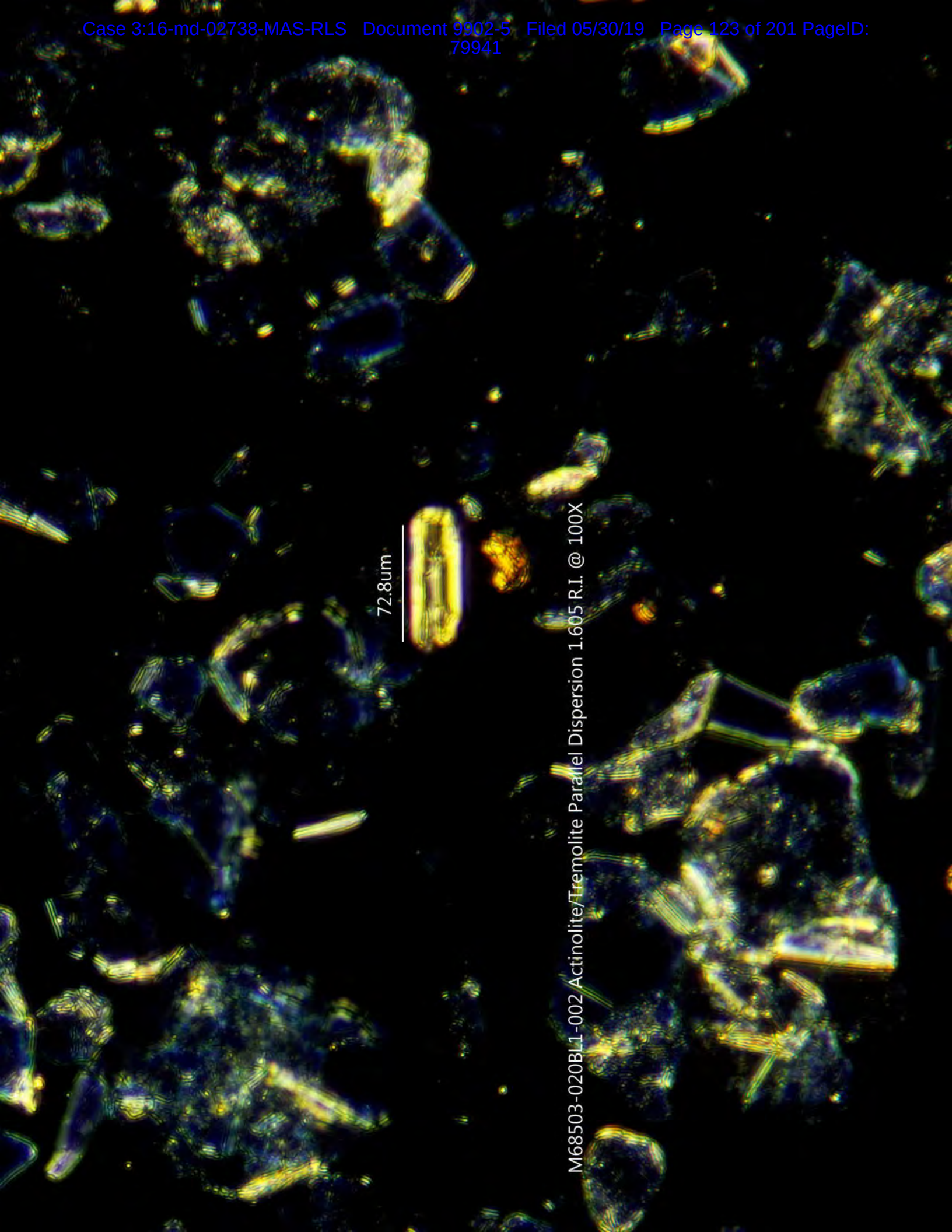
M68503-020BL1-001 Actinolite/Tremolite Perpendicular Dispersion



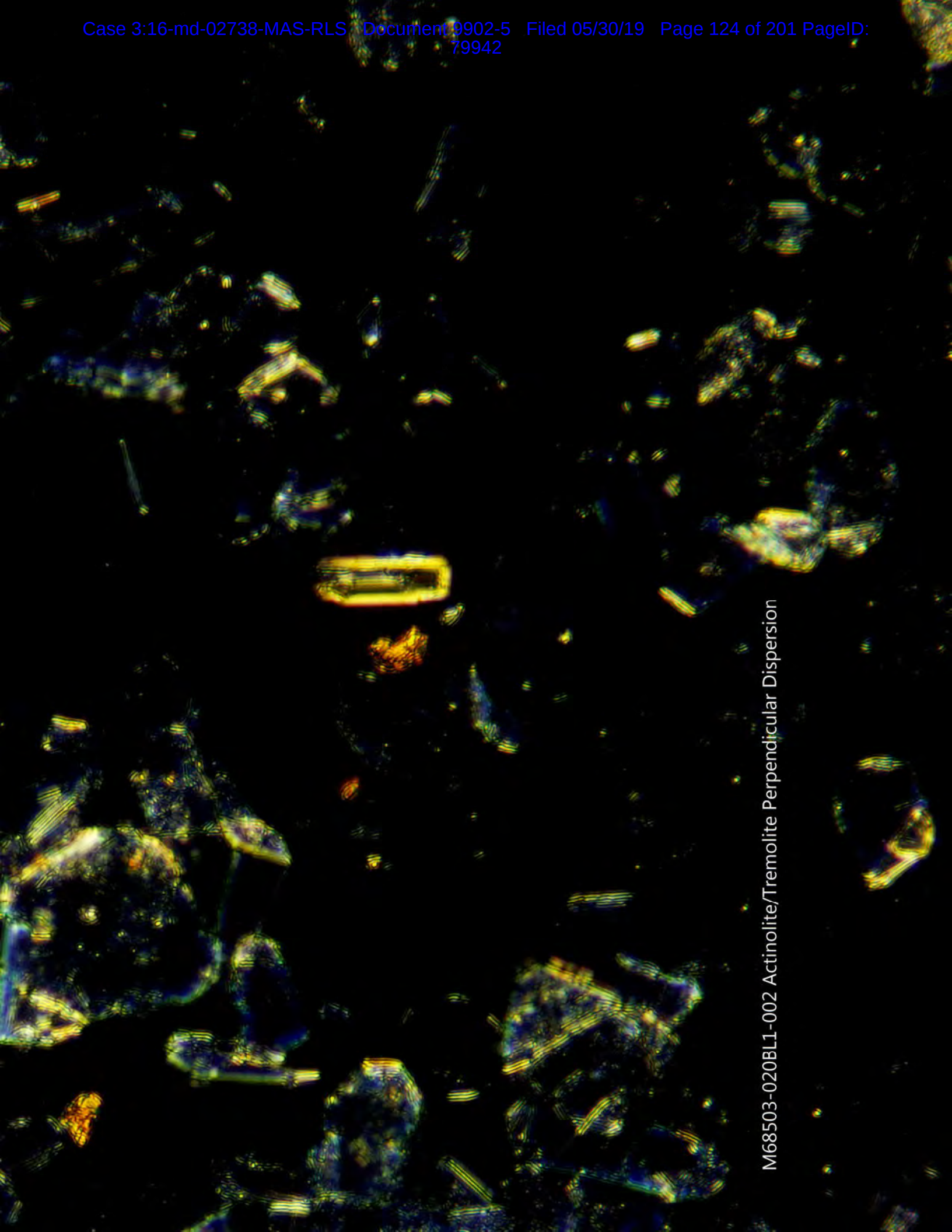
M68503-020BL1-001 Actinolite/Tremolite Elongation @ 200X

M68503-020BL1-001 Actinolite/Tremolite Crossed Polars

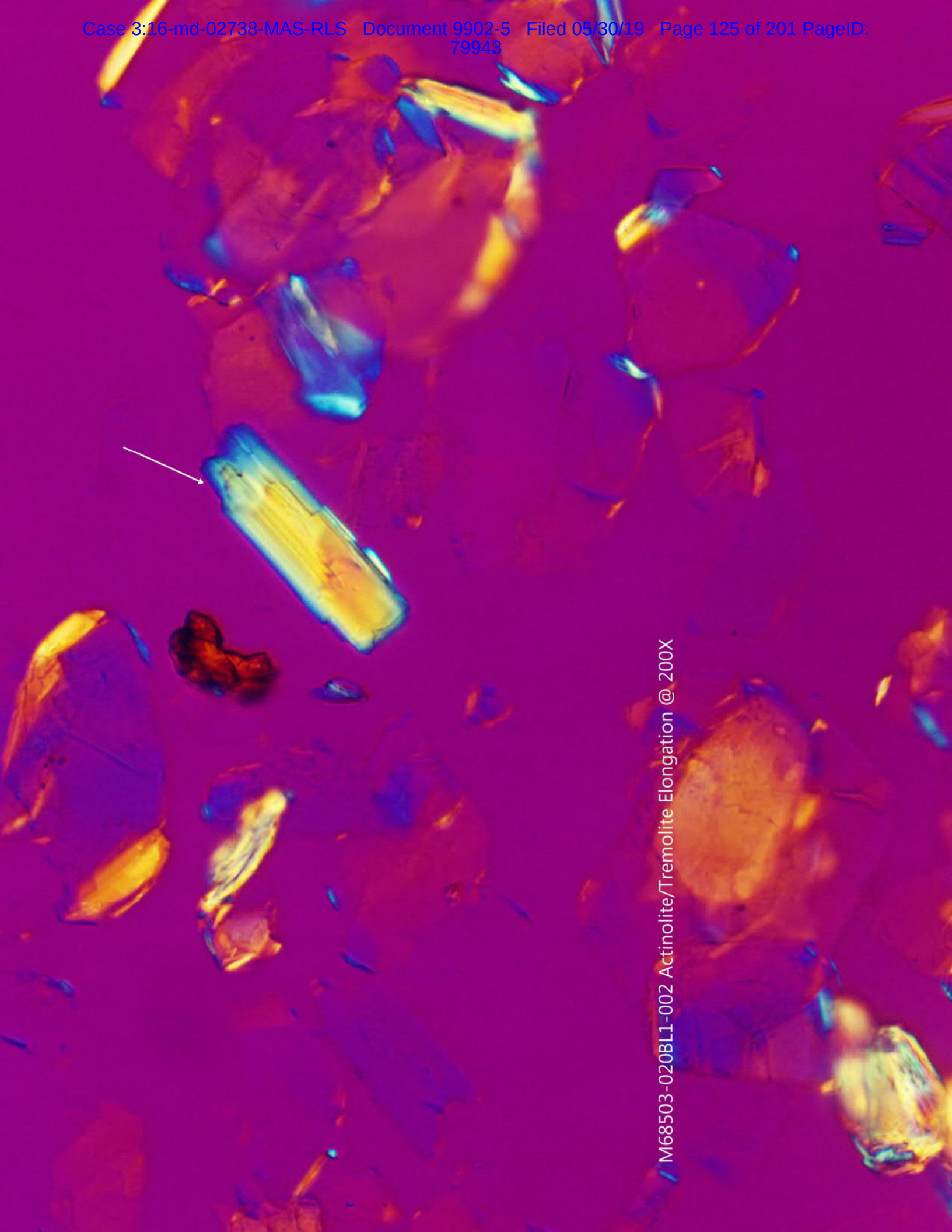




M68503-020BL1-002 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



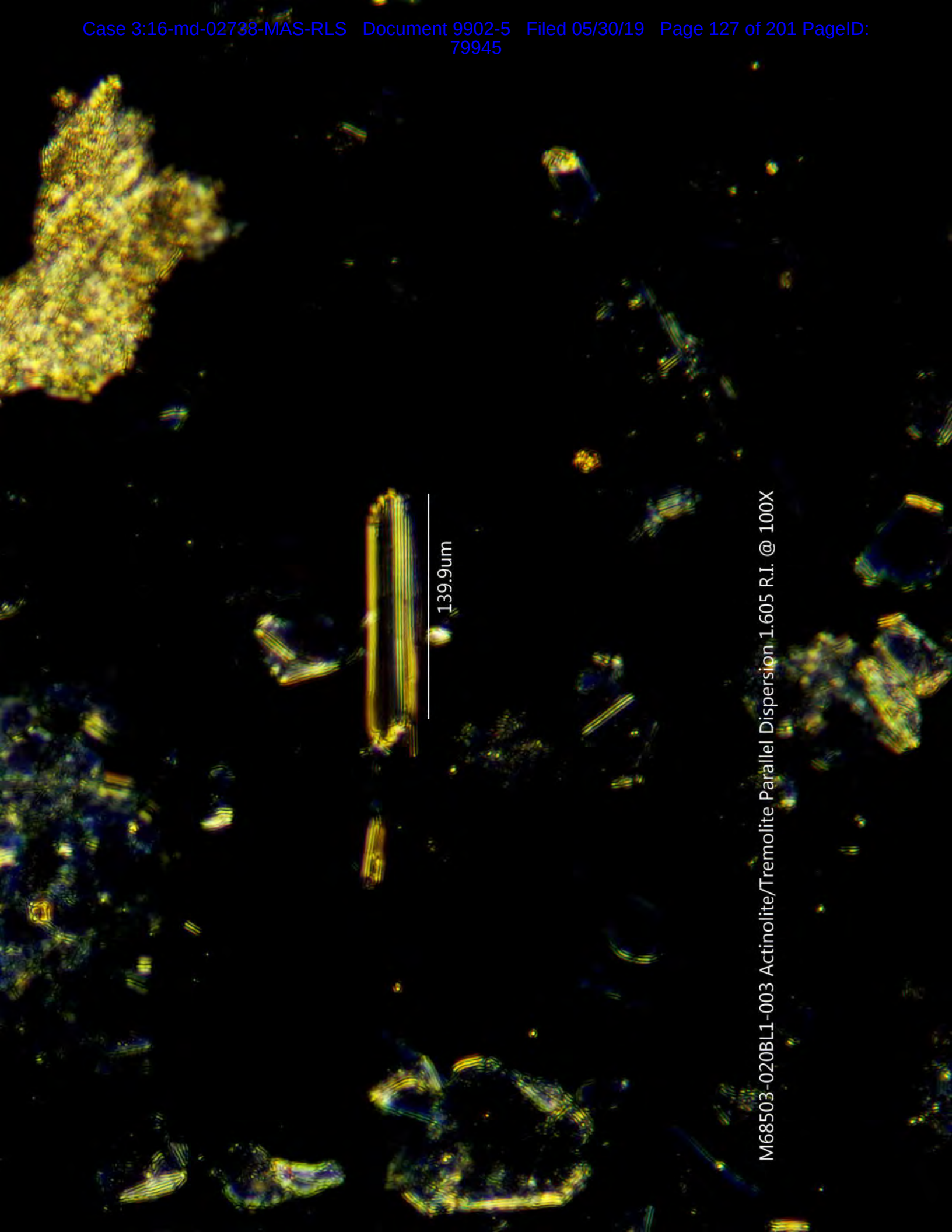
M68503-020BL1-002 Actinolite/Tremolite Perpendicular Dispersion



M68503-020BL1-002 Actinolite/Tremolite Elongation @ 200X

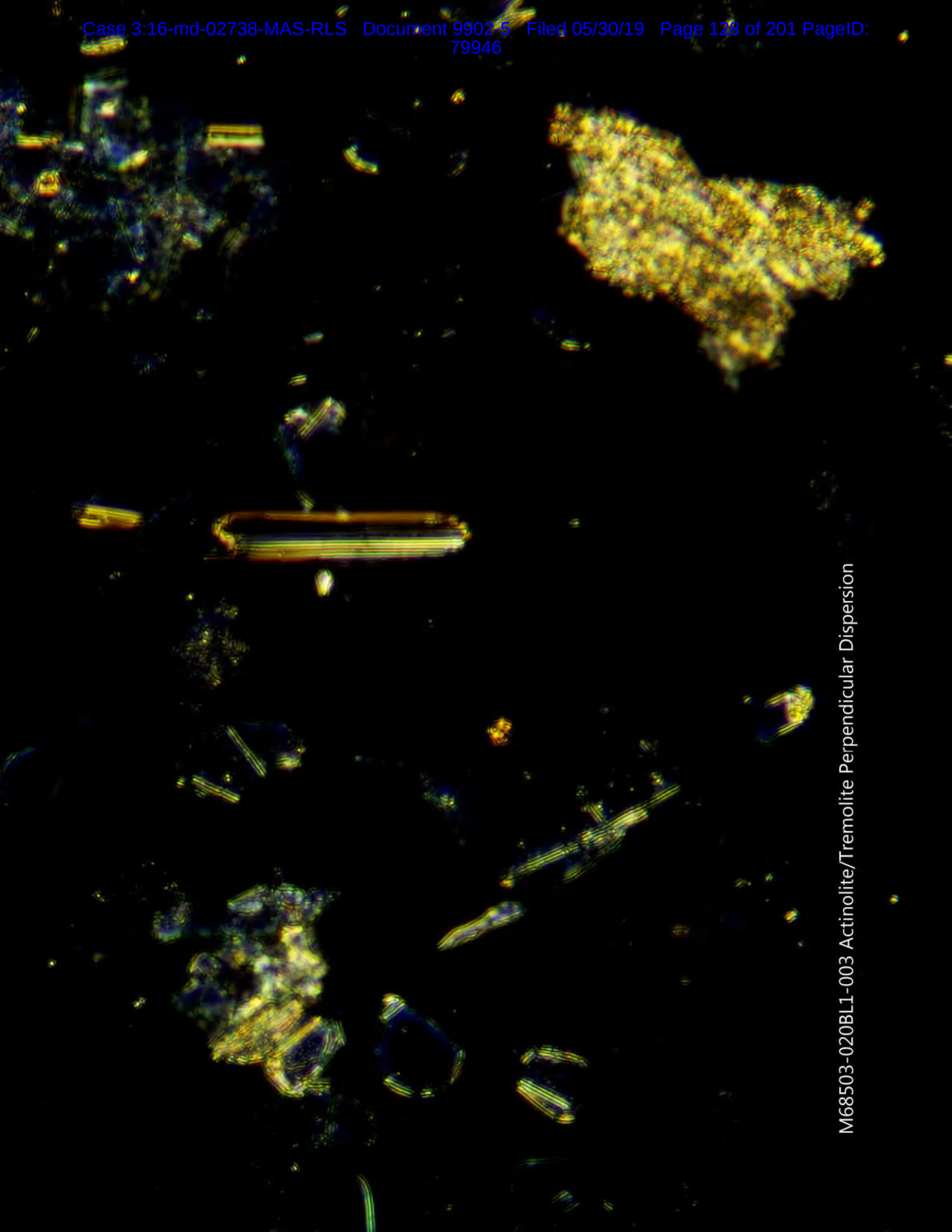


M68503-020BL1-002 Actinolite/Tremolite Crossed Polars



139.9um

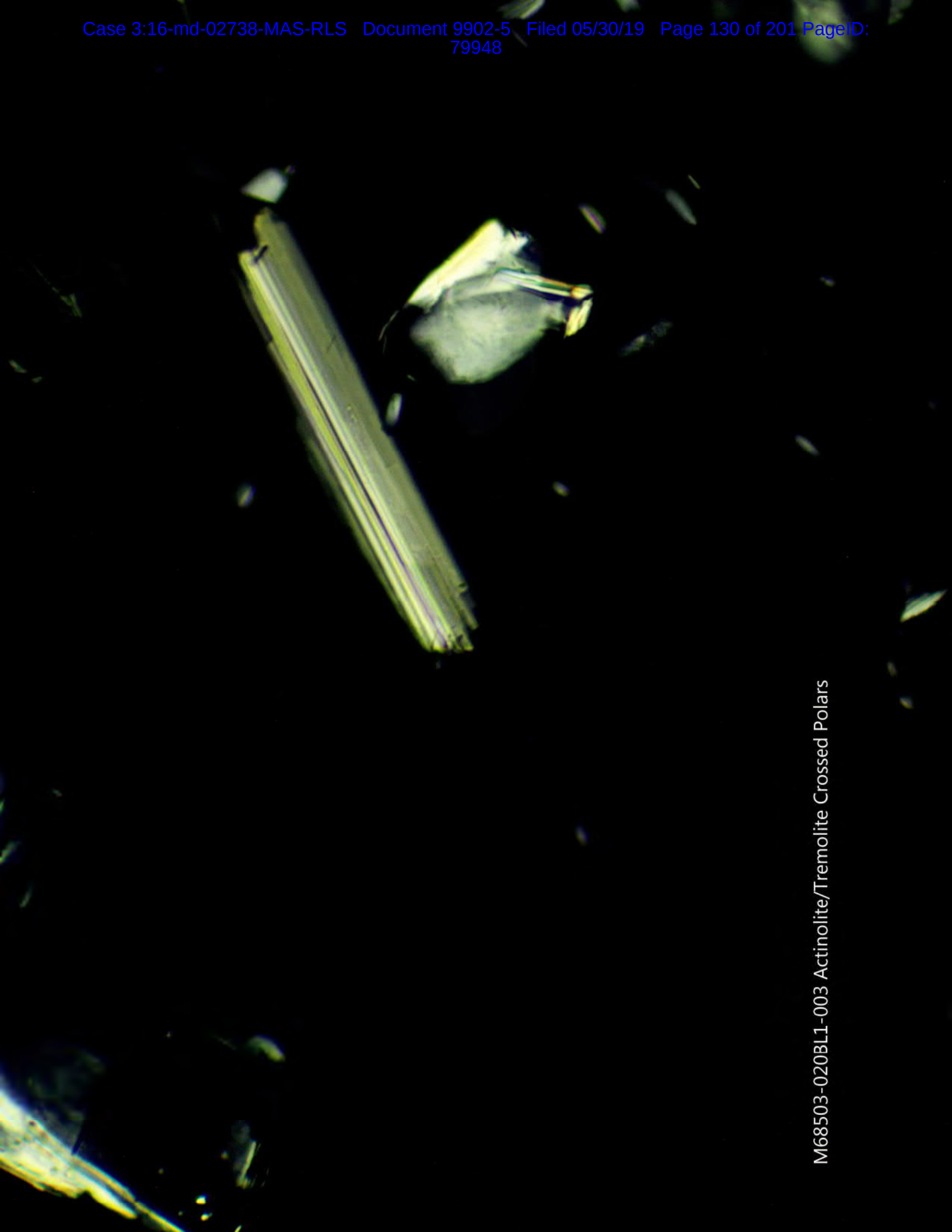
M68503-020BL1-003 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



M68503-020BL1-003 Actinolite/Tremolite Perpendicular Dispersion



M68503-020BL1-003 Actinolite/Tremolite Elongation @ 200X



M68503-020BL1-003 Actinolite/Tremolite Crossed Polars

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-020		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	10/26/2018 - 10/30/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02099			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E10-A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	A10							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
1	C10	Bundle	Anthophyllite	8.5	0.42	20.2	X	X
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							
NSD	G2							
NSD	G3							
NSD	G4							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-020		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	10/26/2018 - 10/30/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02099			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm ²			1.103

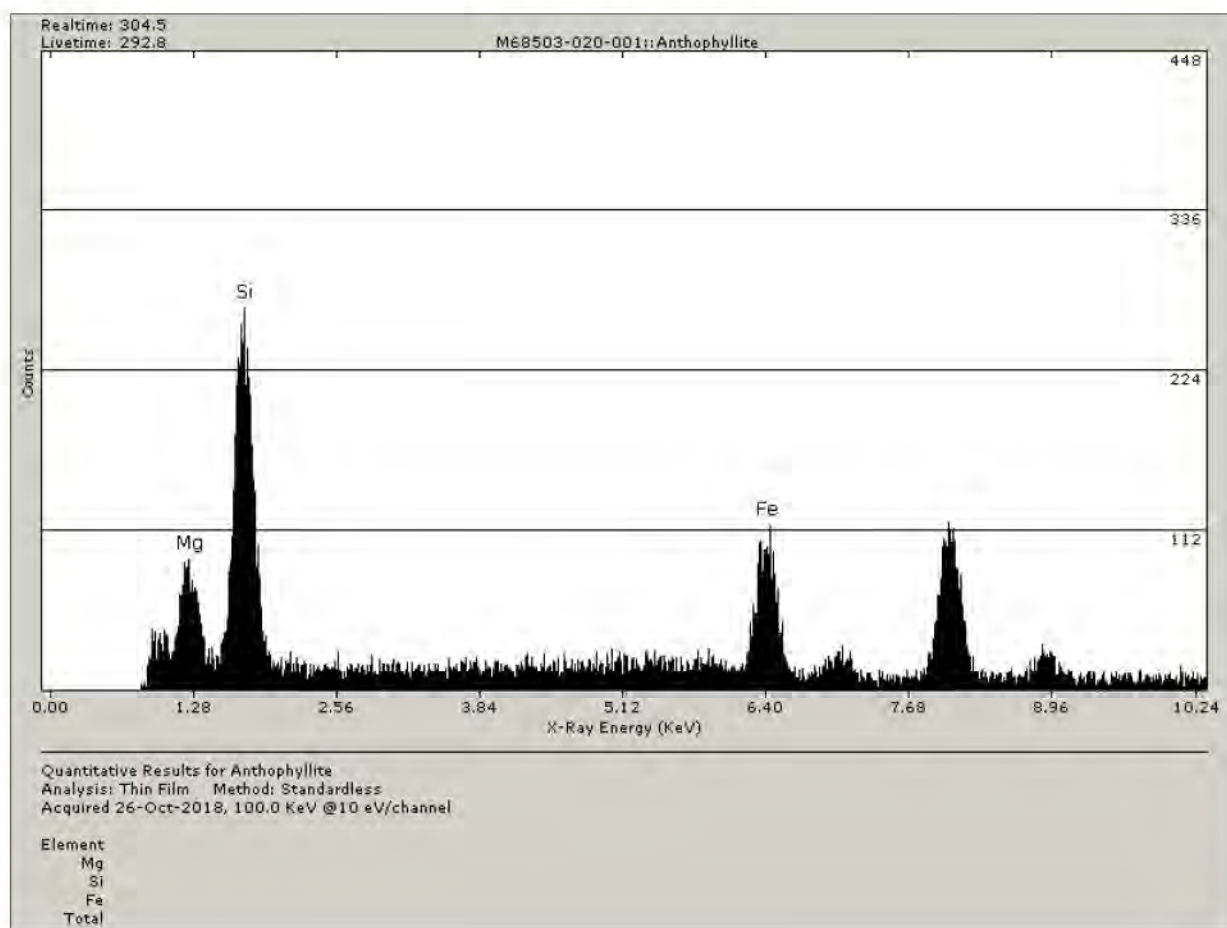
Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E8-A1							
NSD	A2							
NSD	A3							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	E1							
NSD	E2							
NSD	E3							
2	E4	Bundle	Tremolite	2.7	0.44	6.1	X	X
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	F1							
NSD	F2							
3	F3	Bundle	Anthophyllite	4.62	0.62	7.5	X	X
NSD	F4							
NSD	F5							
4	F6	Bundle	Anthophyllite	21.1	0.98	21.5	X	X
NSD	F7							
NSD	F8							
NSD	F9							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							

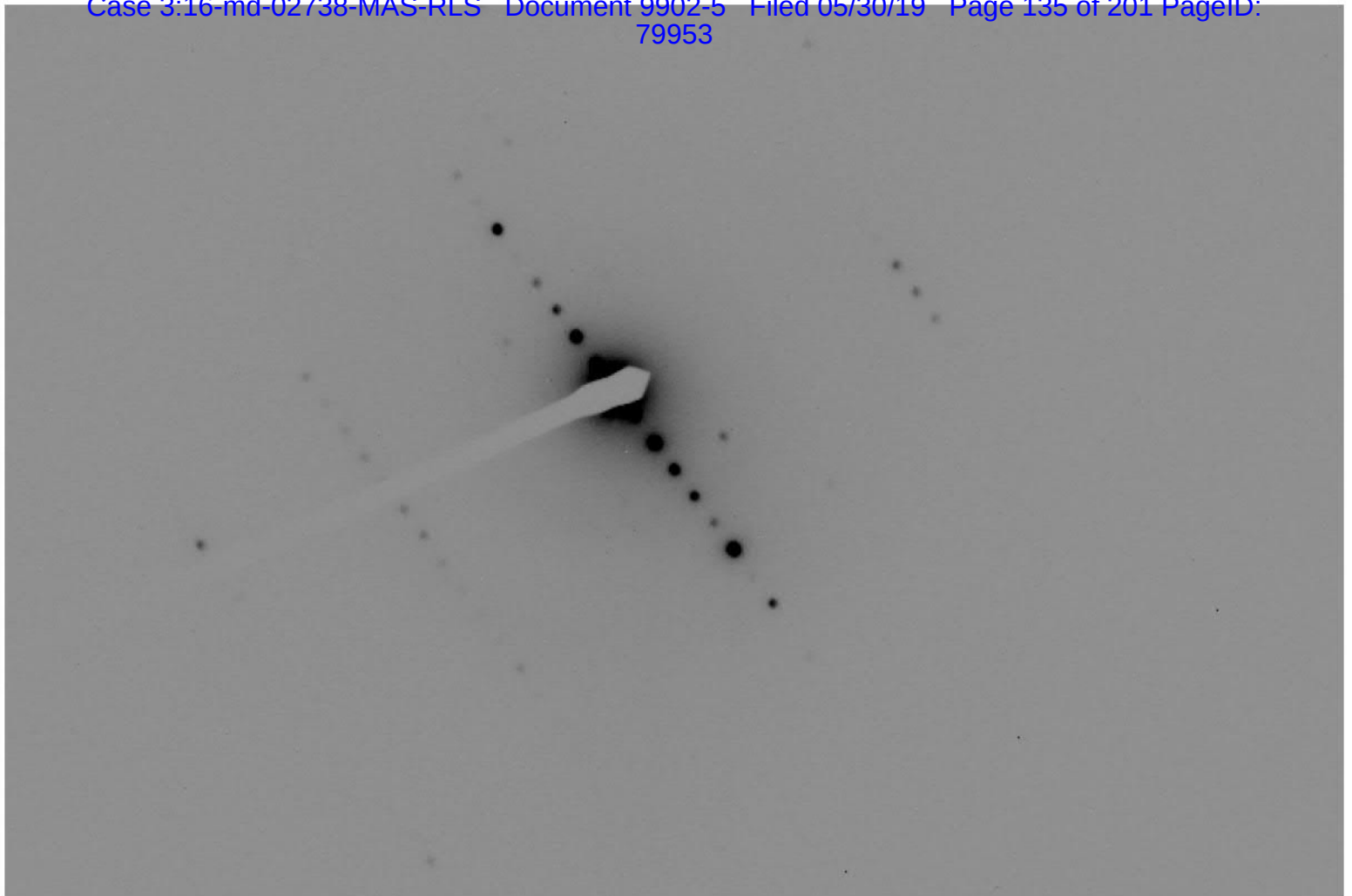
TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-020		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	10/26/2018 - 10/30/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02099			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
--------	--------------	-----------	------------------	--------	-------	-------	------	-----

Org. Sample Wt.	Sample Wt. Post HL Separation	
0.02099	0.02099	g
Percent of Orig. Post Separation	100	(%)
Wt. Of Sample Analyzed	0.00011507	g
Filter size	201.1	mm ²
Number of Structures Counted	4	Str.
Structures per Gram of Sample	3.48E+04	Str./g

Detection Limit	8.69E+03	Str./g
Analytical Sensitivity	8.69E+03	Str./g

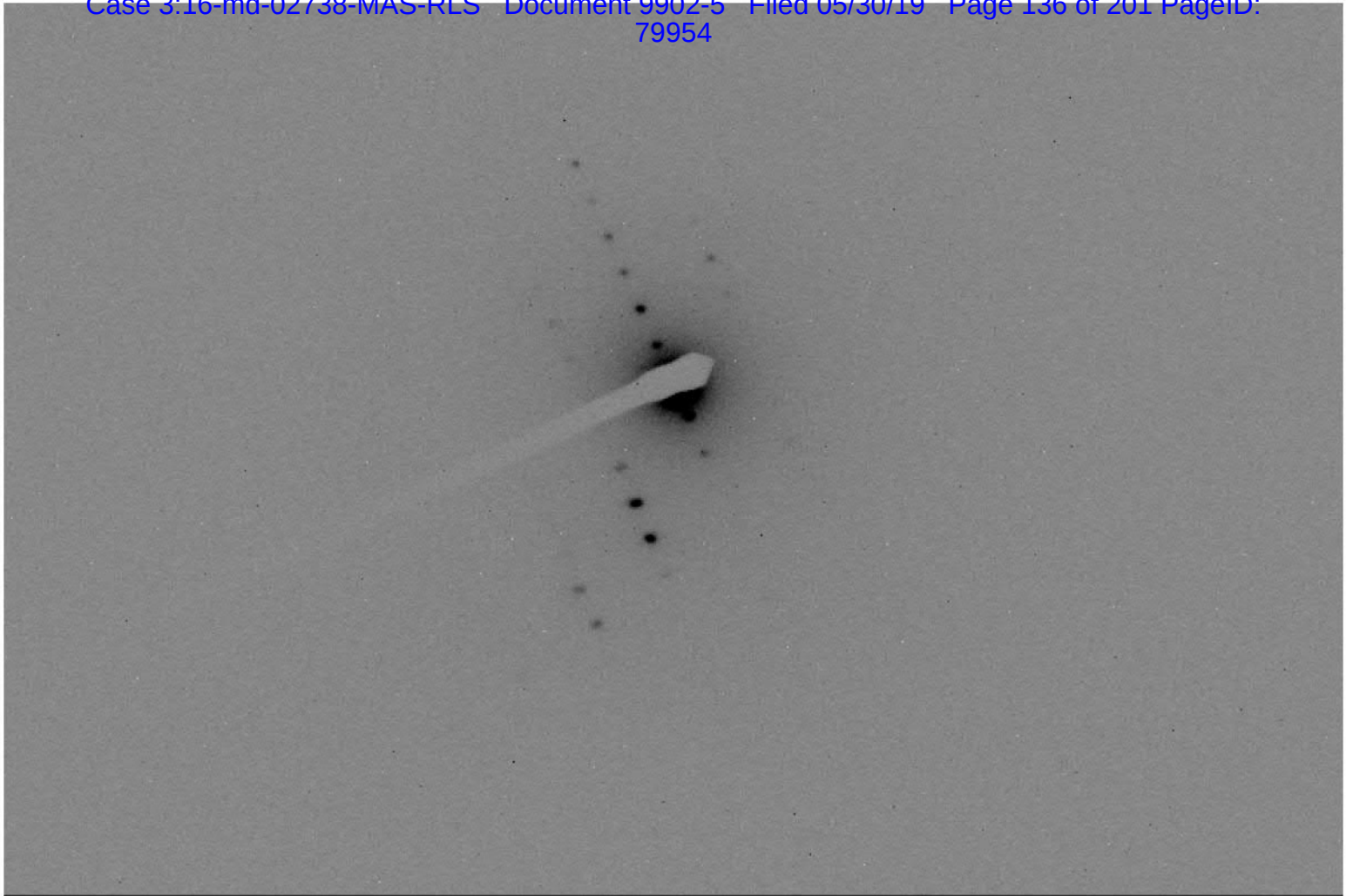




310563

M68503-020-001 Anthophyllite Diffraction - 1 @ 50cm

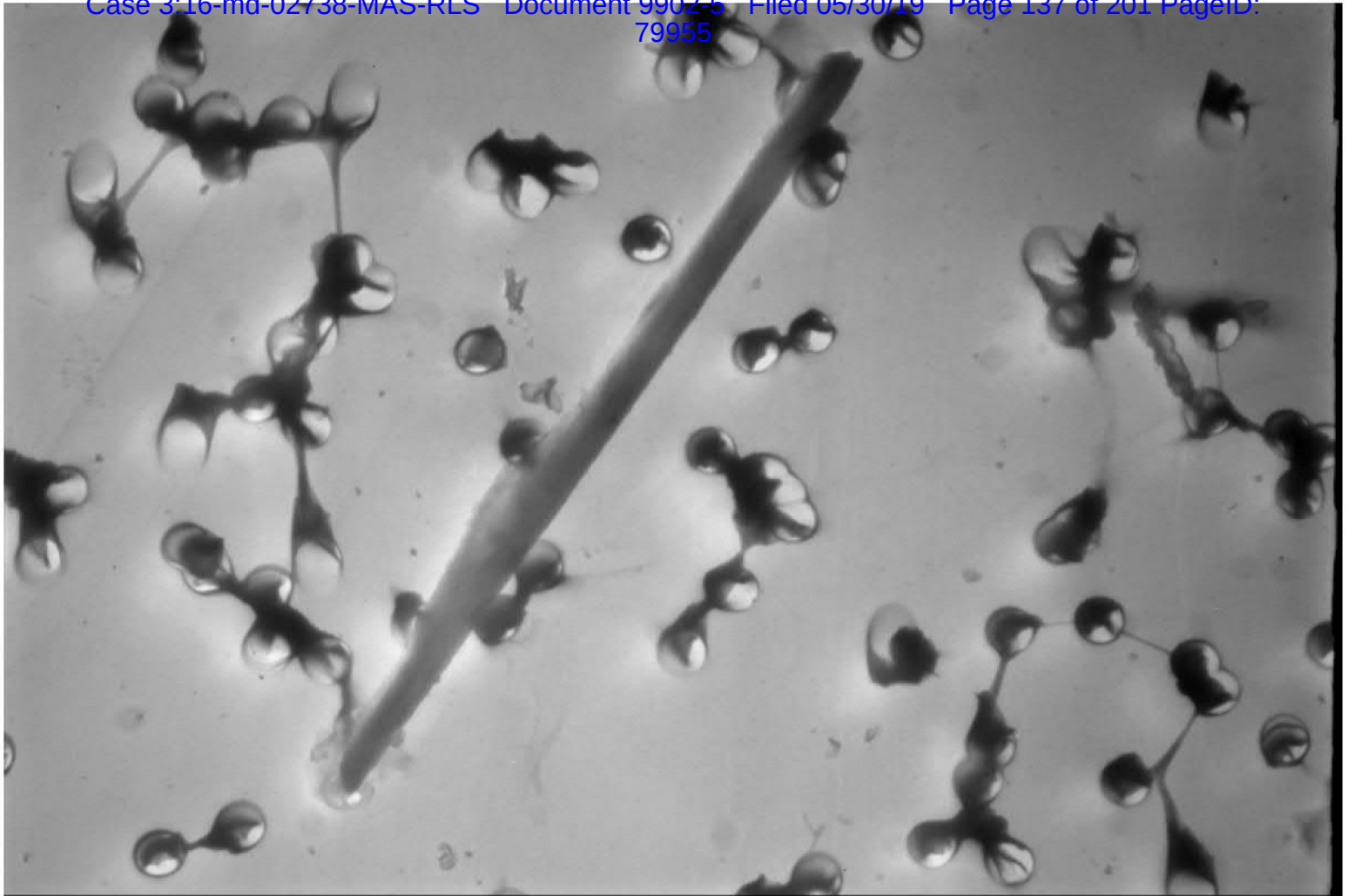
10/26/2018



310637

M68503-020-001 Anthophyllite Diffraction - 2 @ 50cm

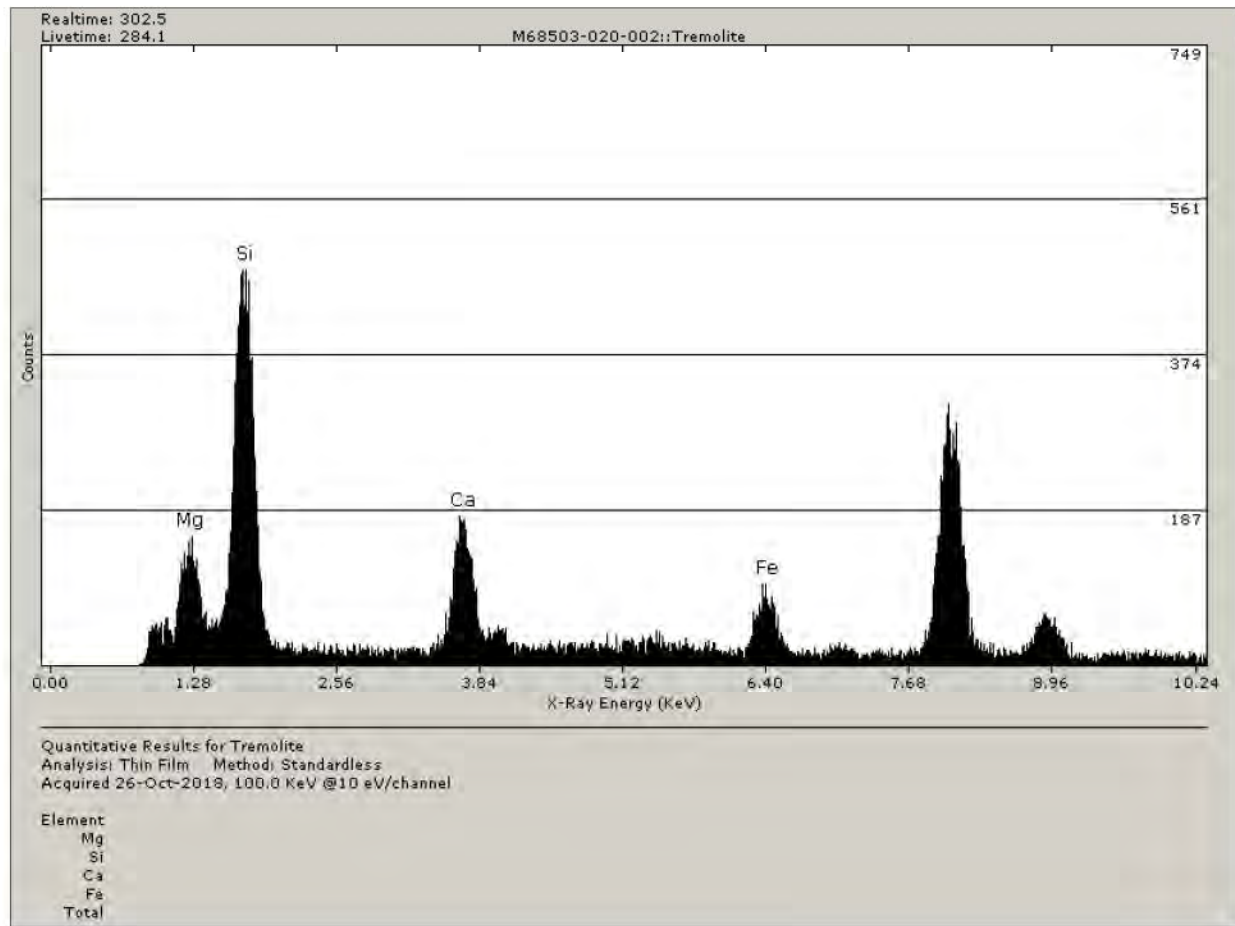
10/30/2018

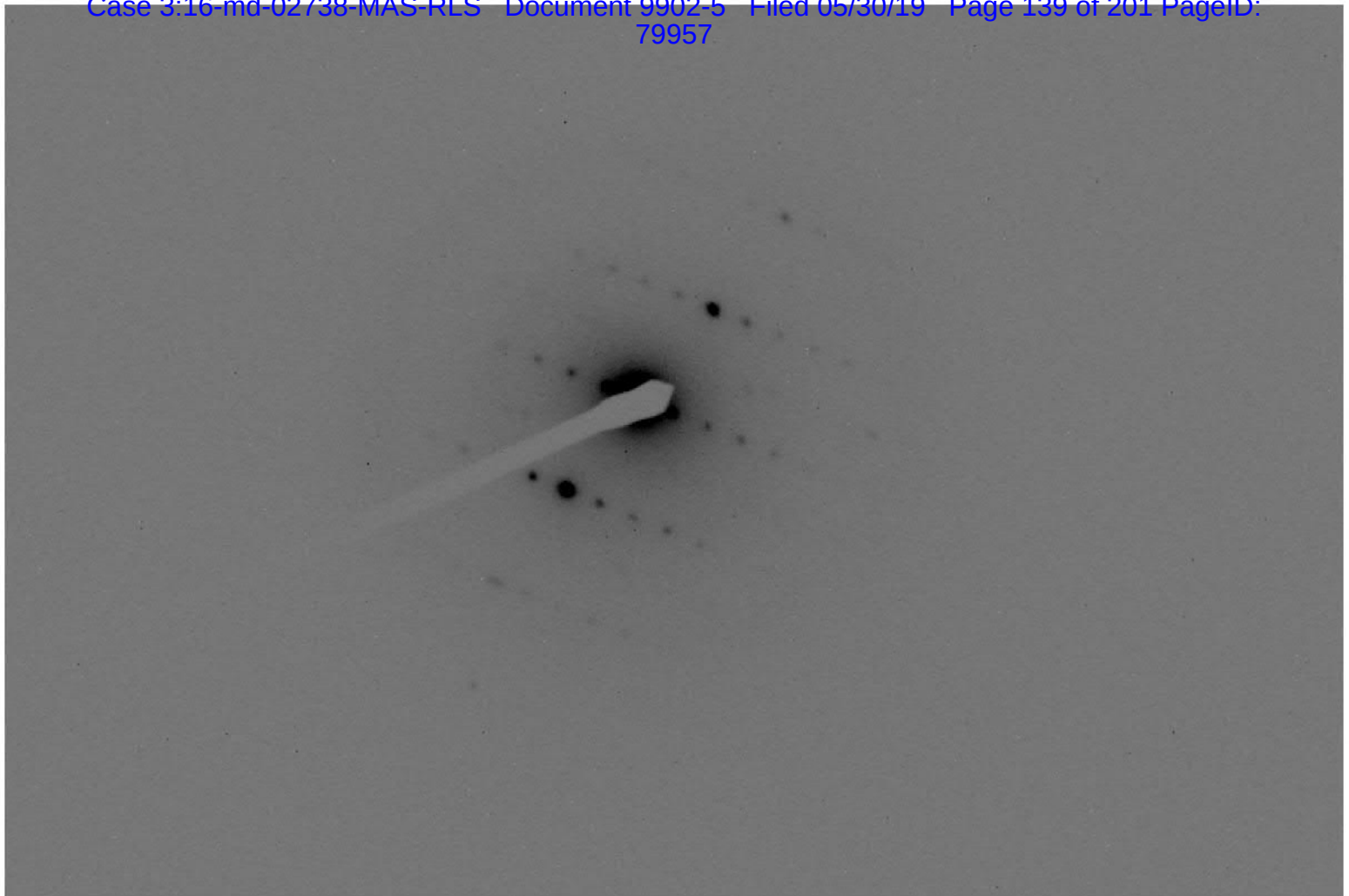


310565

M68503-020-001 Anthophyllite (8.5 μm \times 0.42 μm)

10/26/2018





310574

M68503-020-002 Tremolite Diffraction @ 50cm

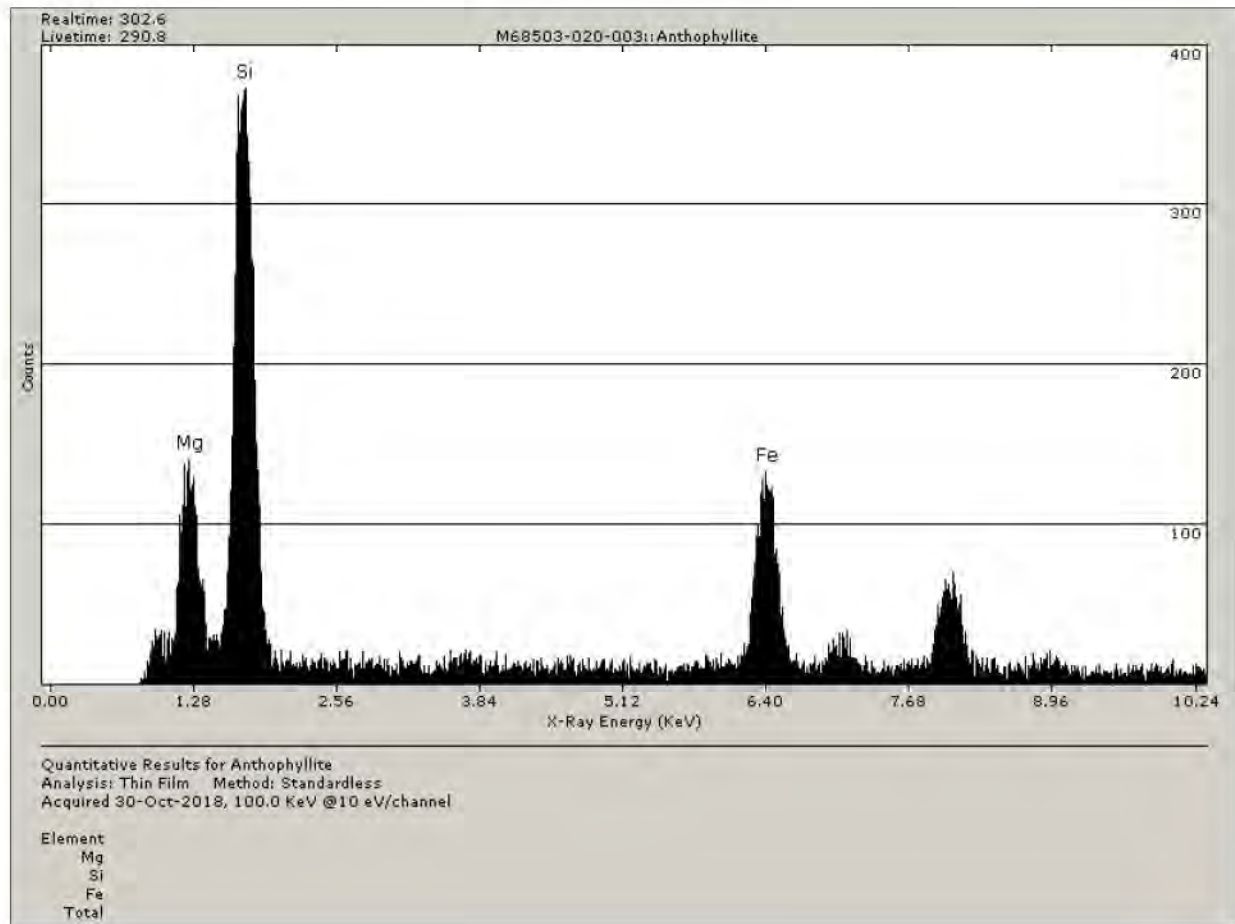
10/26/2018



310575

M68503-020-002 Tremolite (2.7 um x 0.44 um)

10/26/2018





310649

M68503-020-003 Anthophyllite Diffraction - 1 @ 50cm

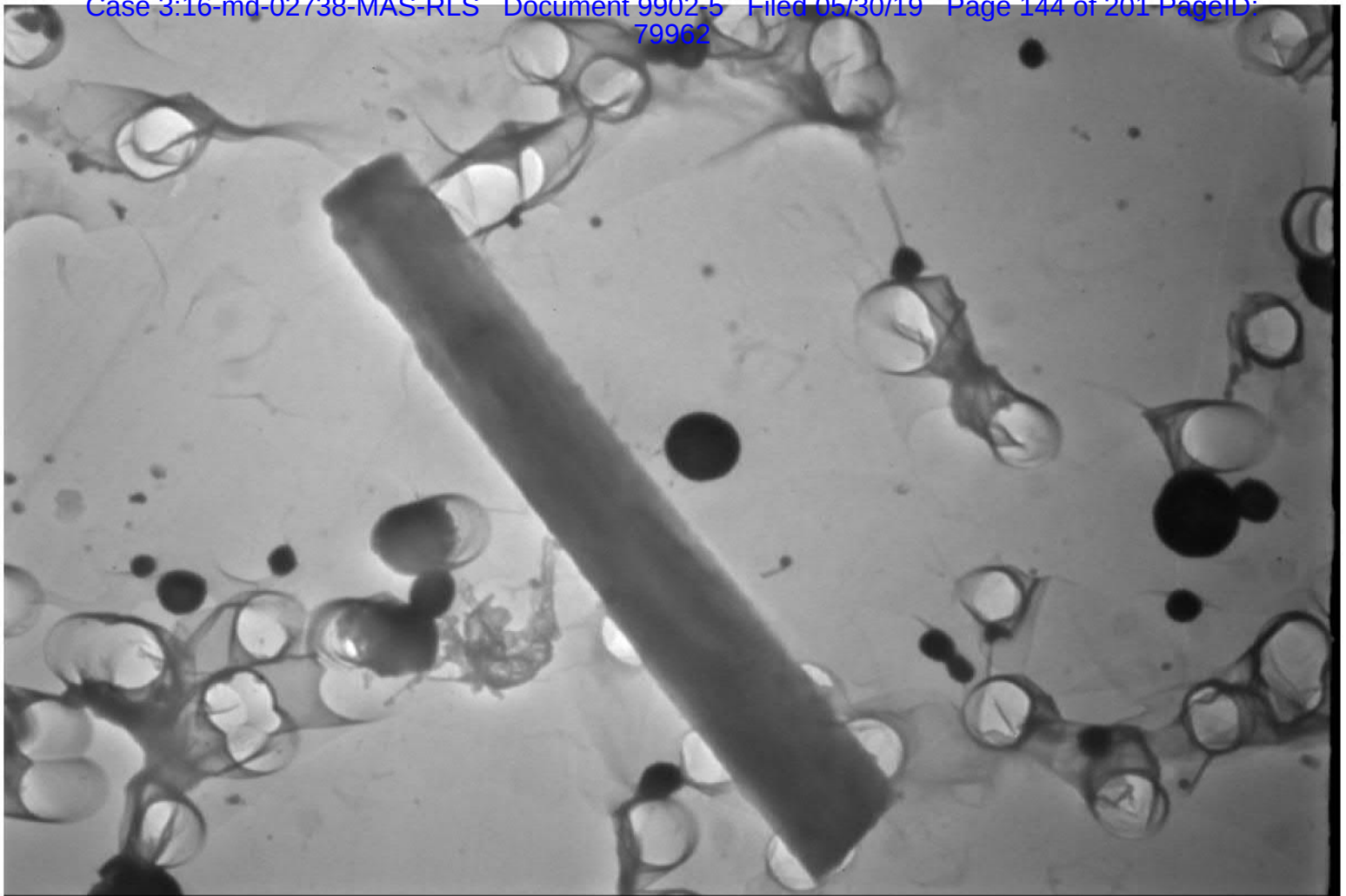
10/30/2018



310650

M68503-020-003 Anthophyllite Diffraction - 2 @ 50cm

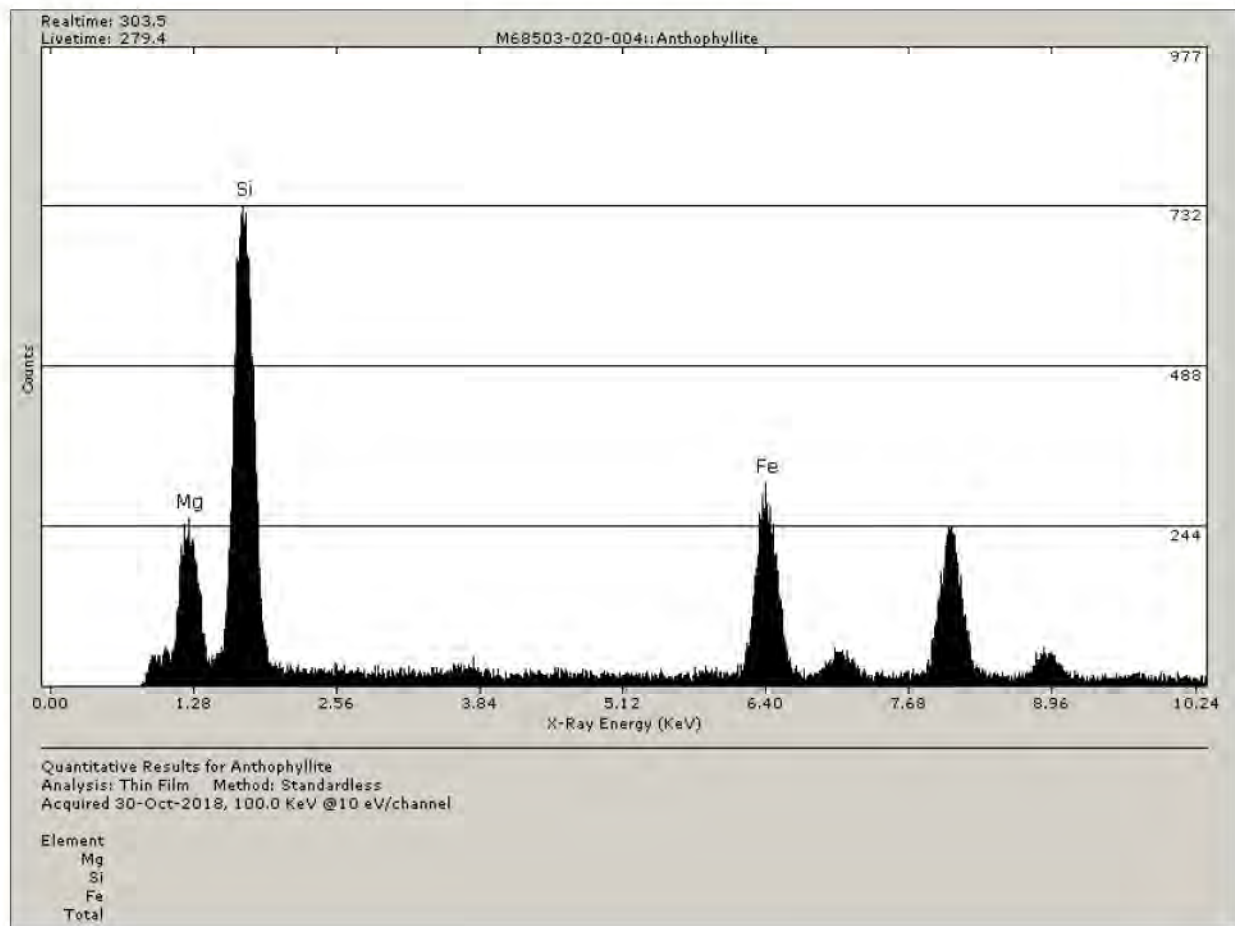
10/30/2018

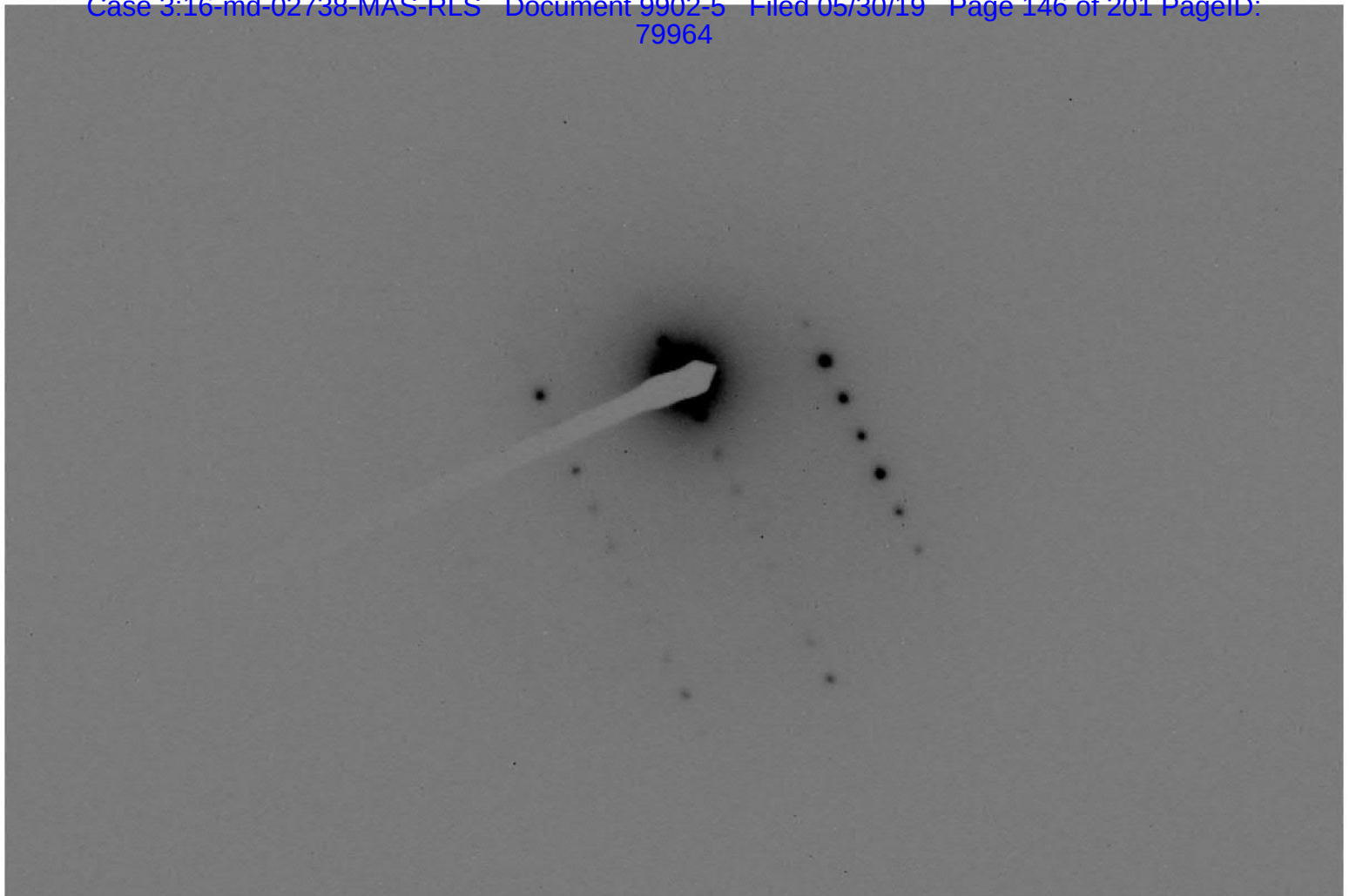


310651

M68503-020-003 Anthophyllite (4.62 um x 0.62 um)

10/30/2018

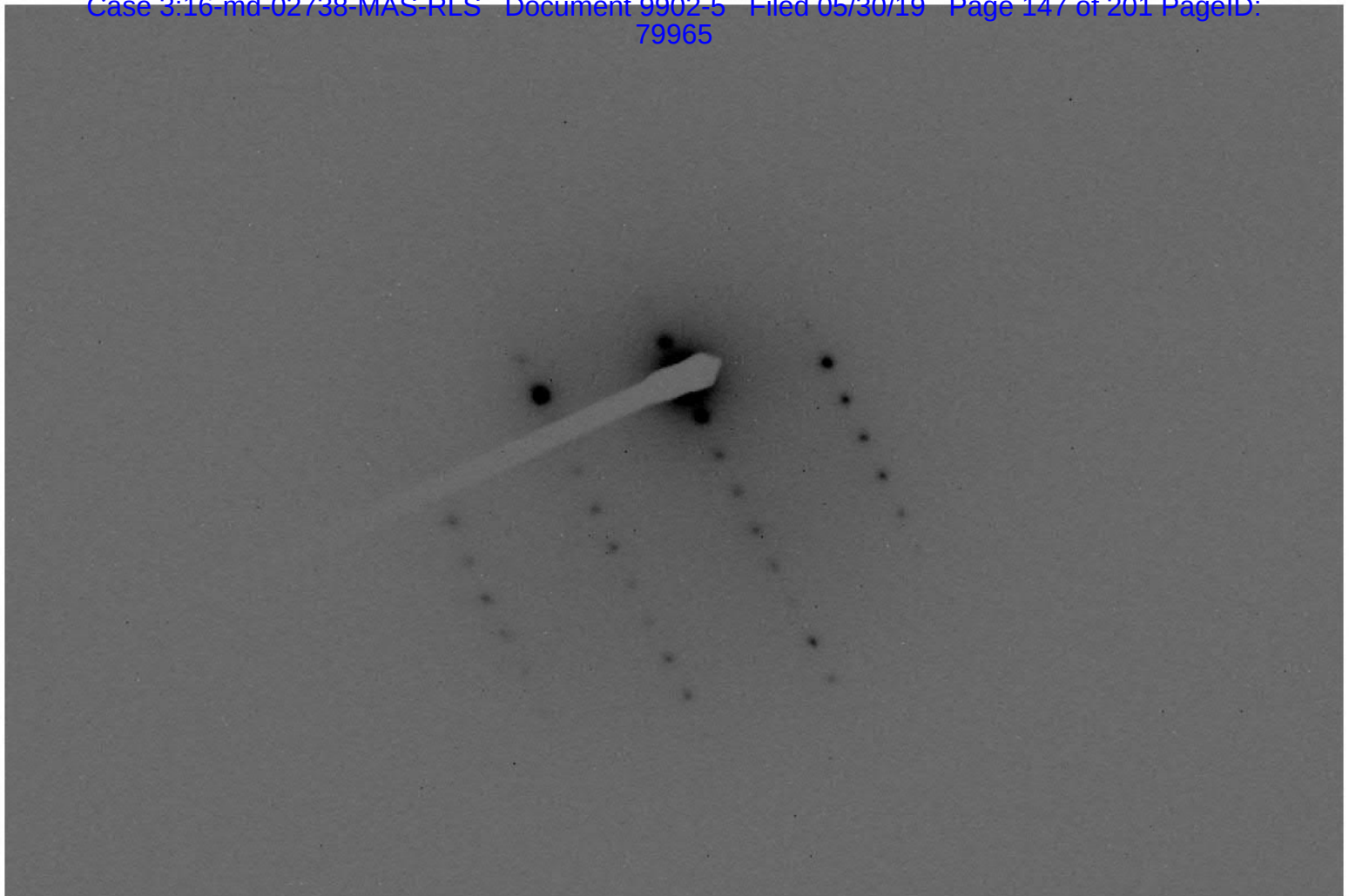




310654

M68503-020-004 Anthophyllite Diffraction - 1 @ 50cm

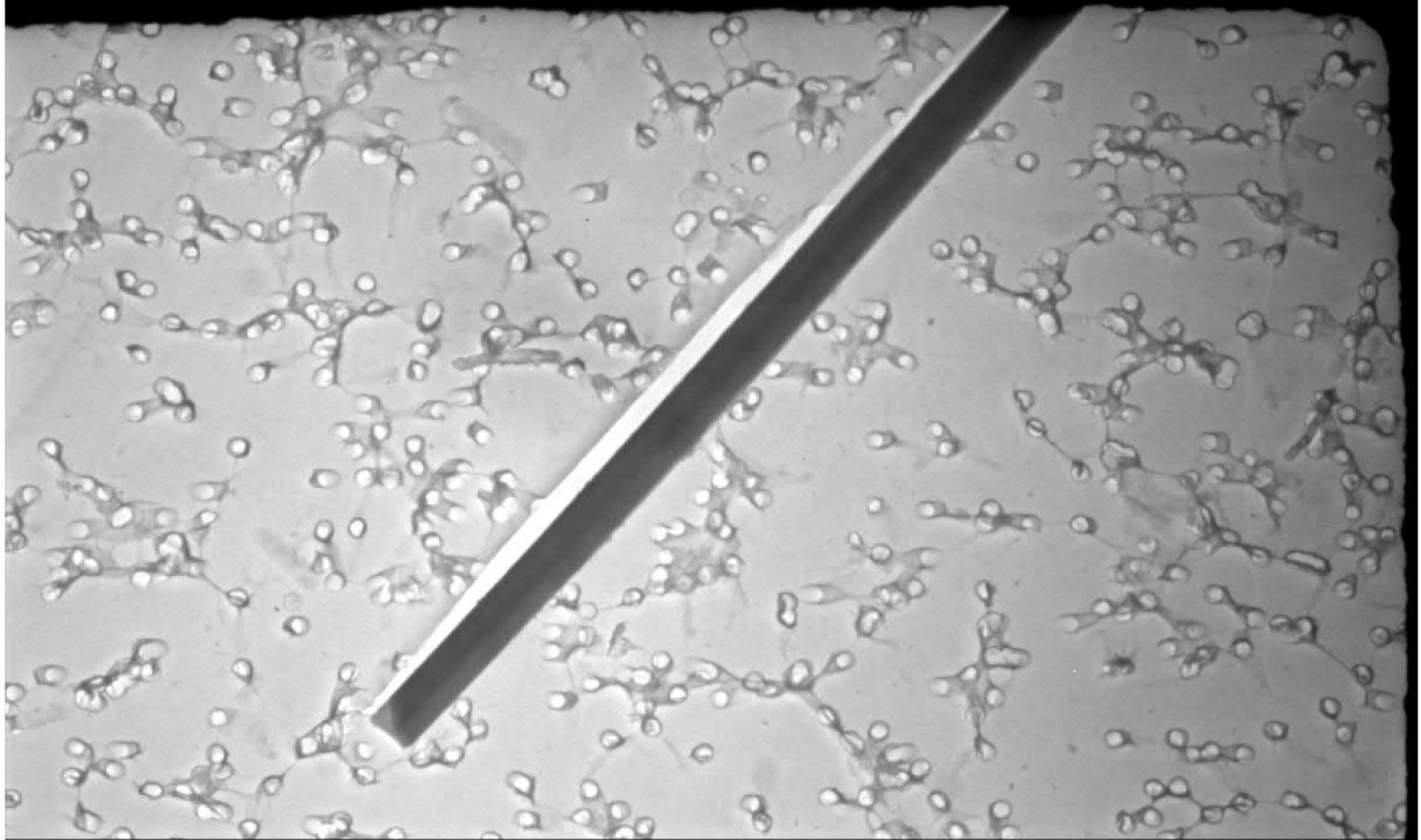
10/30/2018



310655

M68503-020-004 Anthophyllite Diffraction - 2 @ 50cm

10/30/2018



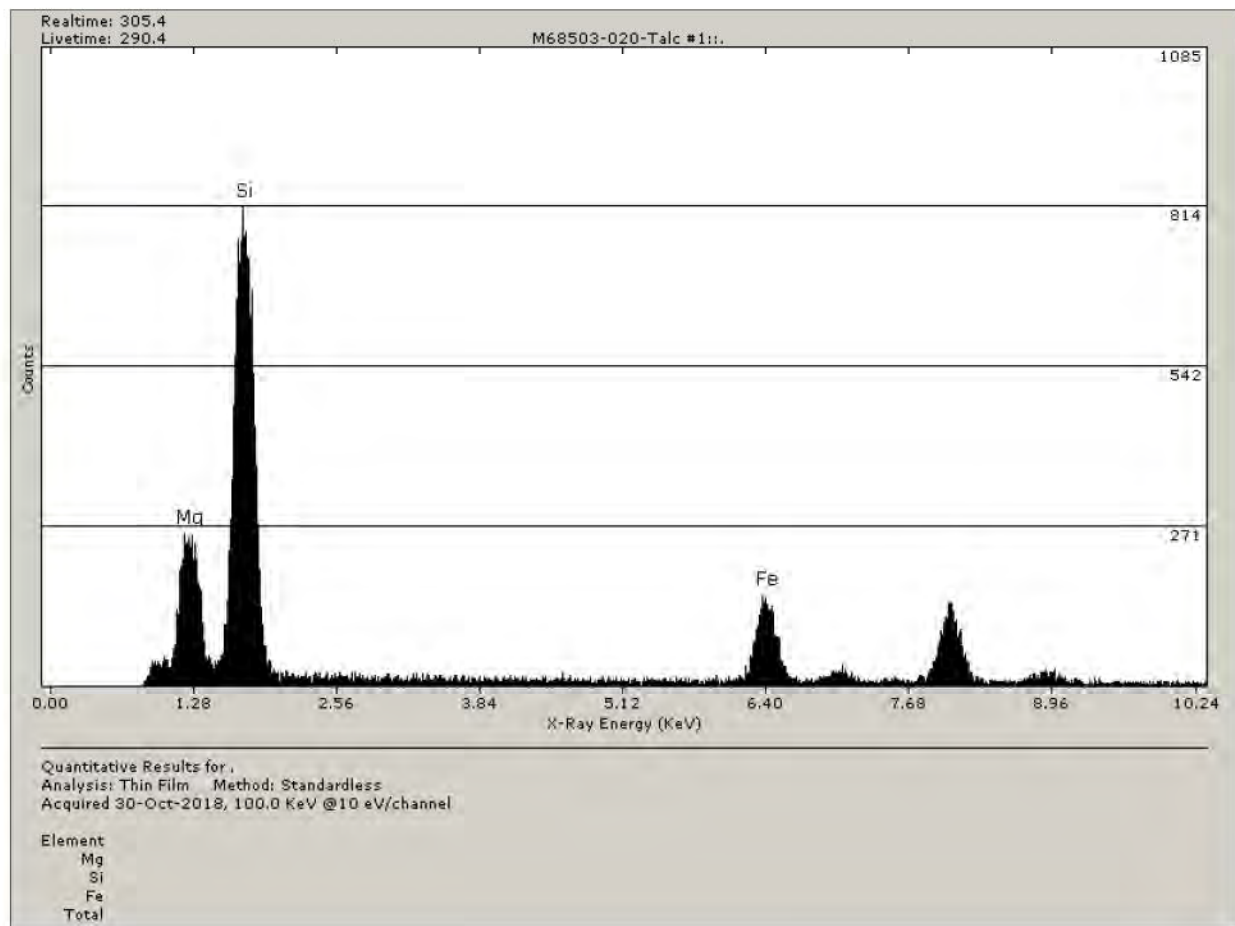
310661

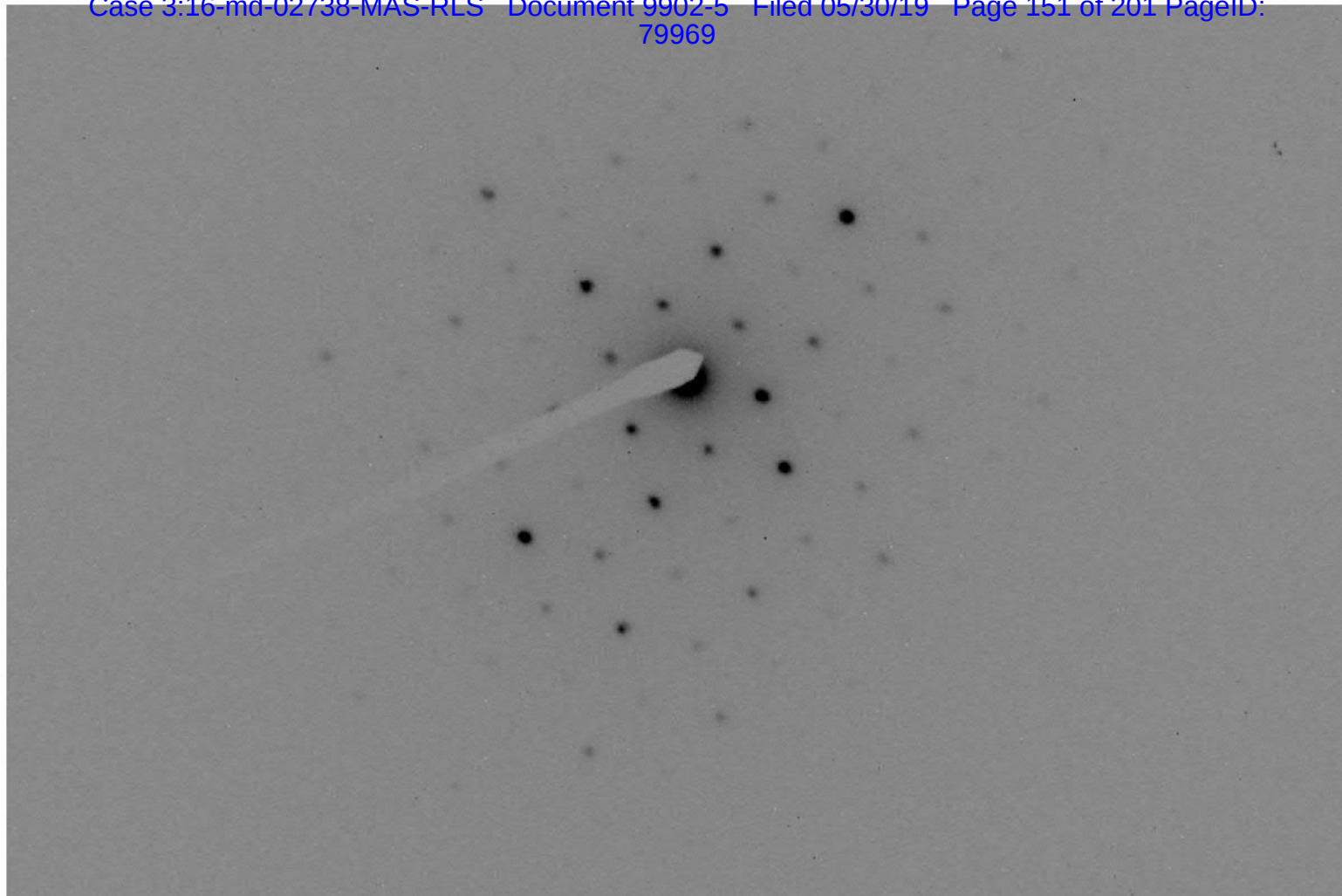
M68503-020-004 Anthophyllite (21.1 um x 0.98 um)

10/30/2018

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-020		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G.O. Area
Date of Analysis	10/26/2018 - 10/30/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.02099			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	E8-A10	B/Talc	16.6	2.3	7.2	Fibrous talc observed trace through out	





310642

M68503-020-Talc #1 Diffraction @ 50cm

10/30/2018



310643

M68503-020-Talc #1 (16.6 um x 2.3 um)

10/30/2018

Section 17

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69042 - 002 Analyst Paul Hess Date 10/12/2018
 ClientName LEVY & KONIGSBERG ClientSpl 20180056-06D
 Location _____
 Type_Mat Johnson & Johnson Talcum Powder
 Gross Off-white powder % of Sample 100
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight	straight	straight
Pleochroism	none	none	none
Refract Index	1.630/1.615	1.630/1.615	1.620/1.605
Sign^	positive	positive	positive
Extinction	oblique	parallel	oblique
Birefringence	moderate	moderate	moderate
Melt	no	no	no
Fiber Name	Actinolite/Tremolite	Anthophyllite	Tremolite/Actinolite

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite..... < 0.1
 Anthophyllite..... < 0.1

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55 ***

NON FIBROUS COMPONENTS

Opagues _____ X
 Talc _____ X
 Mineral grains _____ X

Binder Description _____

Comments Actinolite/Tremolite and Anthophyllite asbestos observed. ***Moderate amount of fibrous talc observed. X=Materials Detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69042 - 002BL Analyst Paul Hess Date 10/15/2018
 ClientName LEVY & KONIGSBERG ClientSpl 20180056-06D
 Location _____
 Type_Mat Johnson & Johnson Talcum Powder
 Gross White debris on slide % of Sample 100
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight	straight	
Pleochroism	none	none	
Refract Index	1.630/1.615	1.630/1.615	
Sign^	positive	positive	
Extinction	oblique	parallel	
Birefringence	moderate	moderate	
Melt	no	no	
Fiber Name	Actinolite/Tremolite	Anthophyllite	

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....	_____
Amosite.....	_____
Crocidolite.....	_____
Tremolite/Actinolite.....	< 0.1
Anthophyllite.....	< 0.1

OTHER FIBROUS COMPONENTS

_____	_____
_____	_____
_____	_____
_____	_____

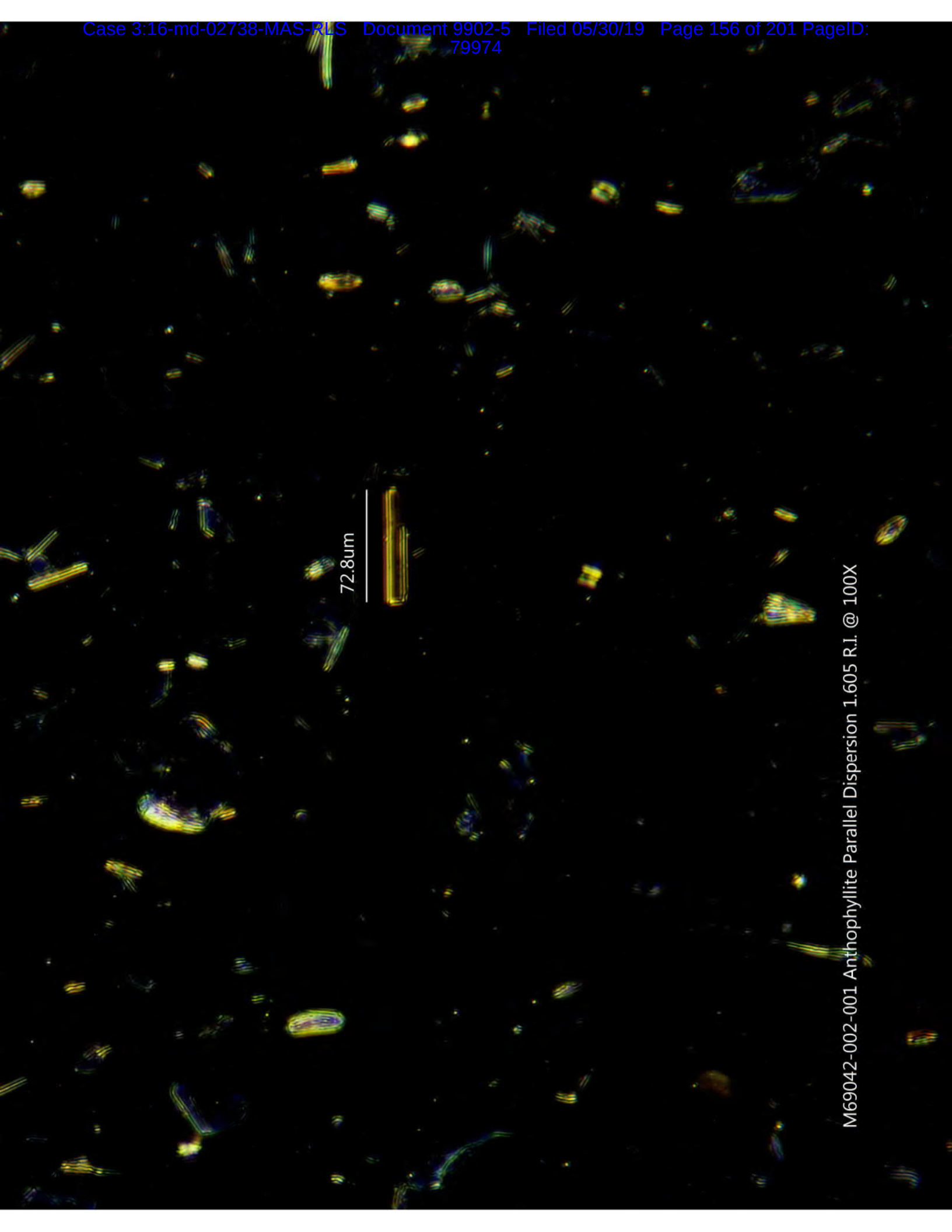
NON FIBROUS COMPONENTS

Opaques	X
Talc	X
Mineral grains	X
_____	_____

Binder Description _____

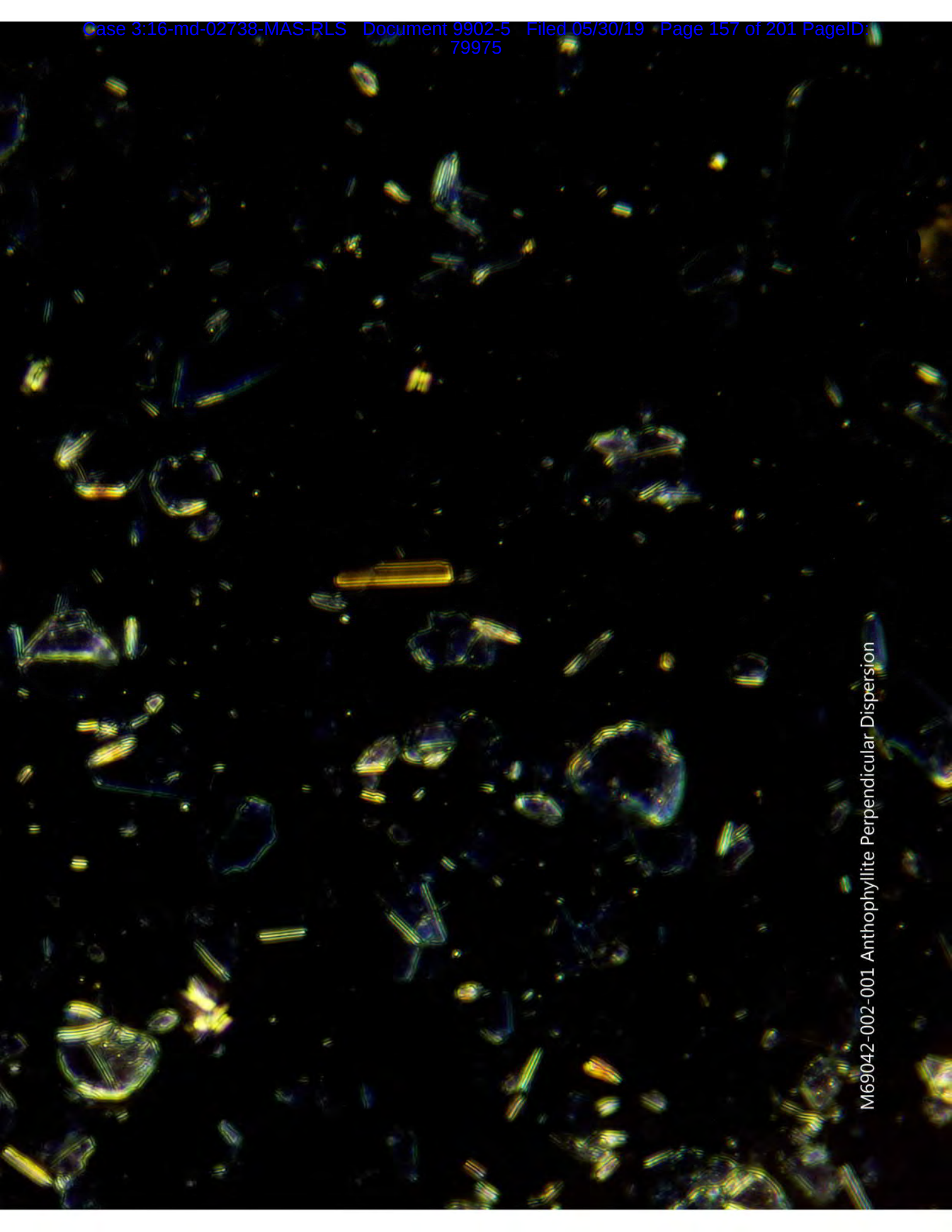
Comments Actinolite/Tremolite and Anthophyllite asbestos observed. X=Materials Detected.

The method detection limit is 1% unless otherwise stated.

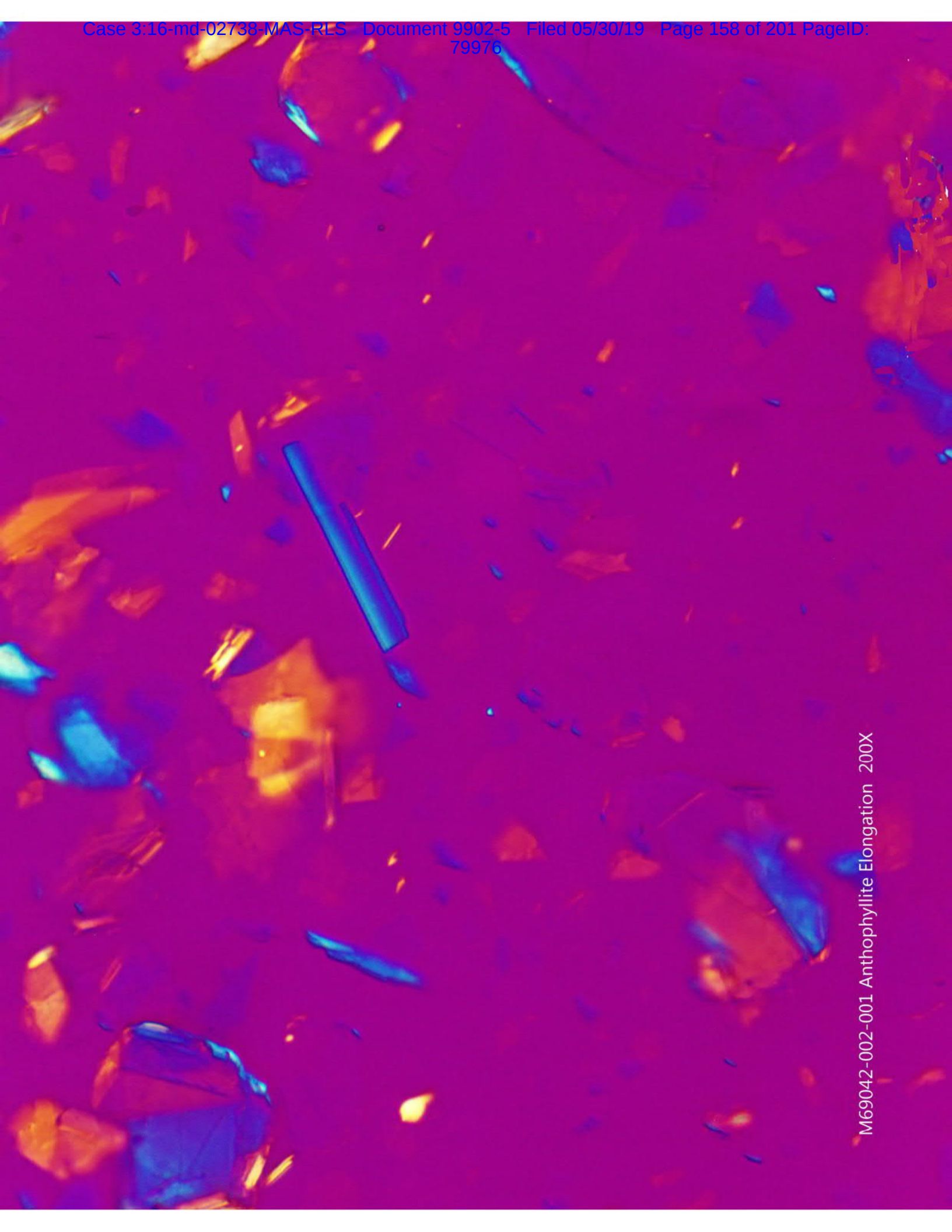


72.8um

M69042-002-001 Anthophyllite Parallel Dispersion 1.605 R.I. @ 100X



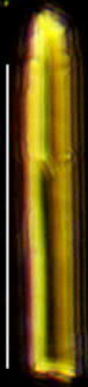
M69042-002-001 Anthophyllite Perpendicular Dispersion



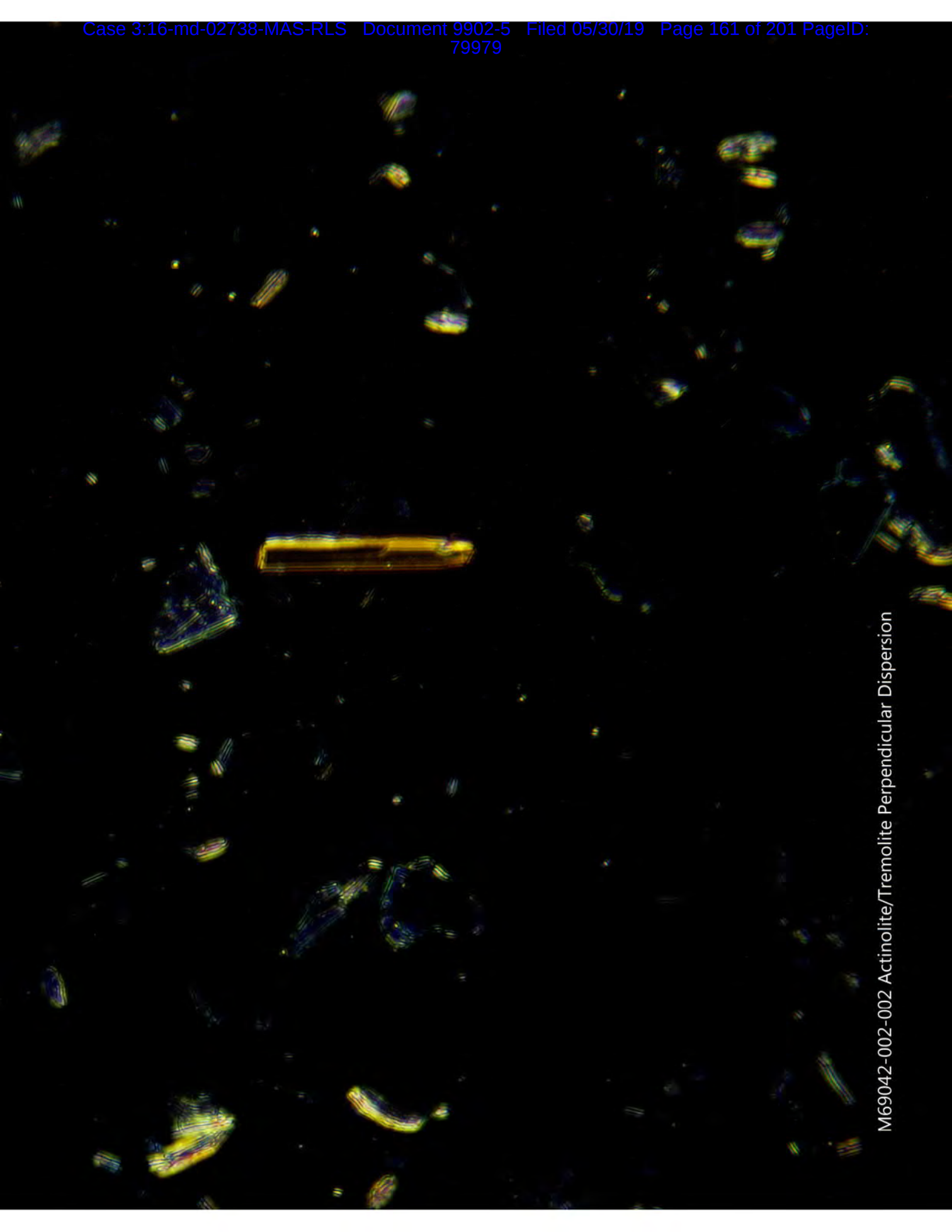
M69042-002-001 Anthophyllite Elongation 200X

M69042-002-001 Anthophyllite Crossed Polars

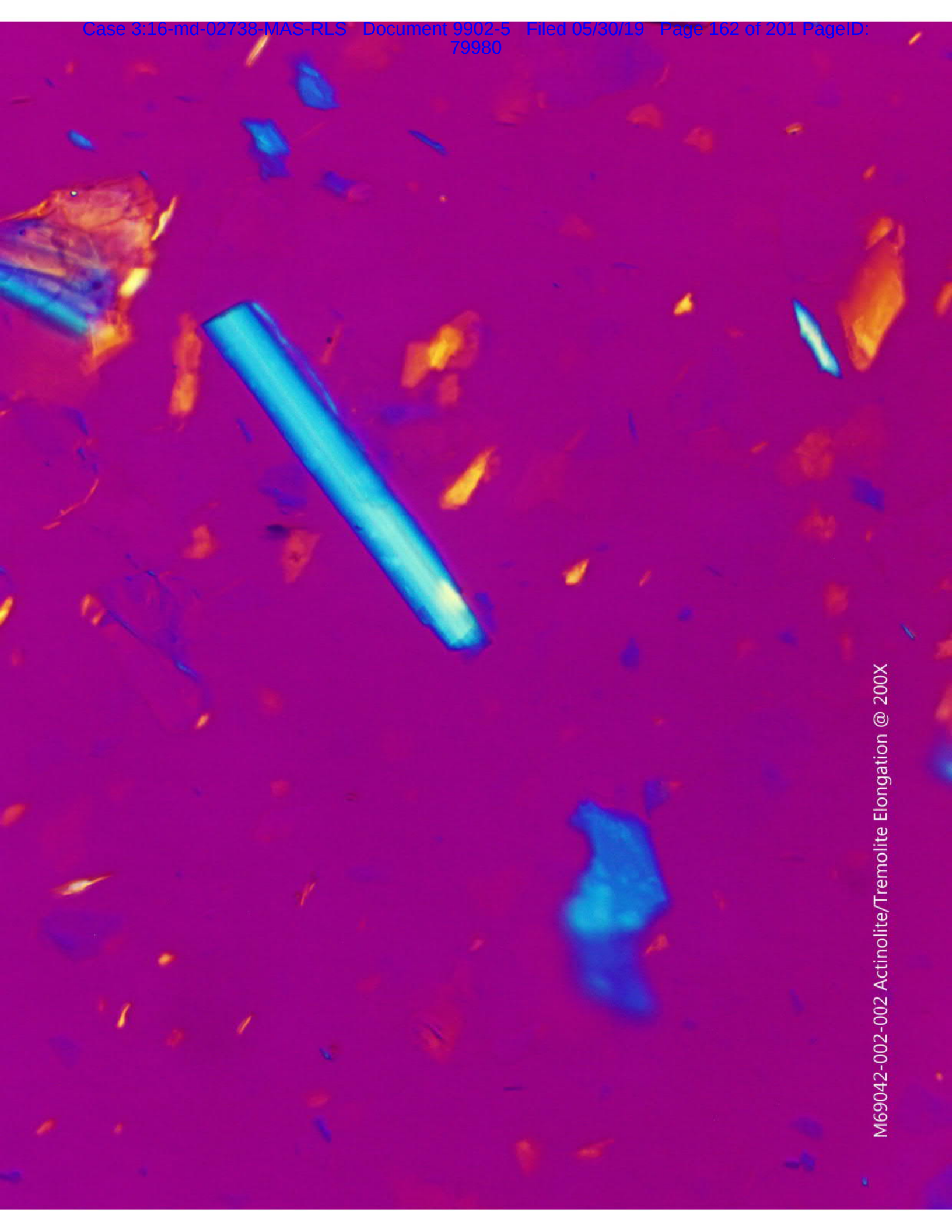
113.8um



M69042-002-002 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



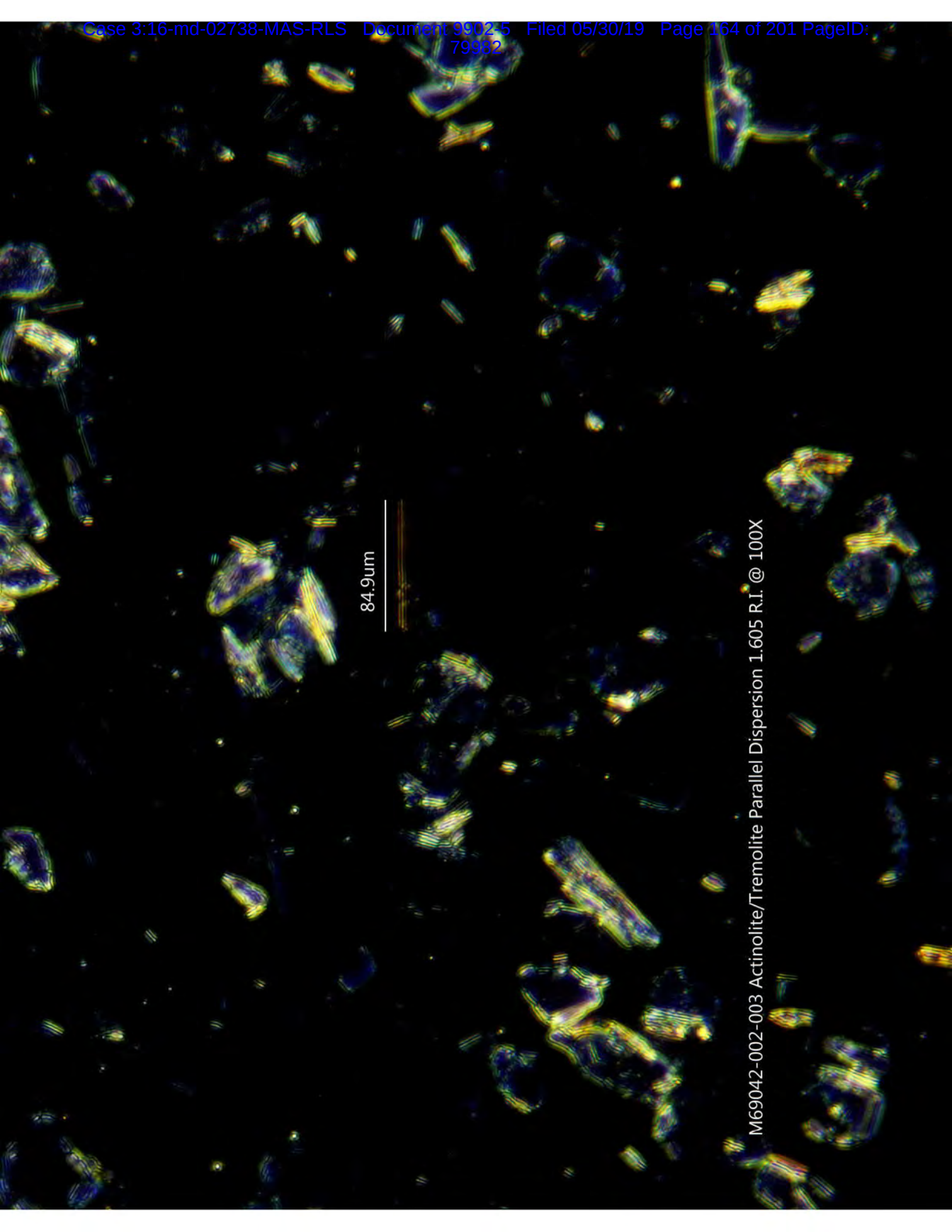
M69042-002-002 Actinolite/Tremolite Perpendicular Dispersion



M69042-002-002 Actinolite/Tremolite Elongation @ 200X

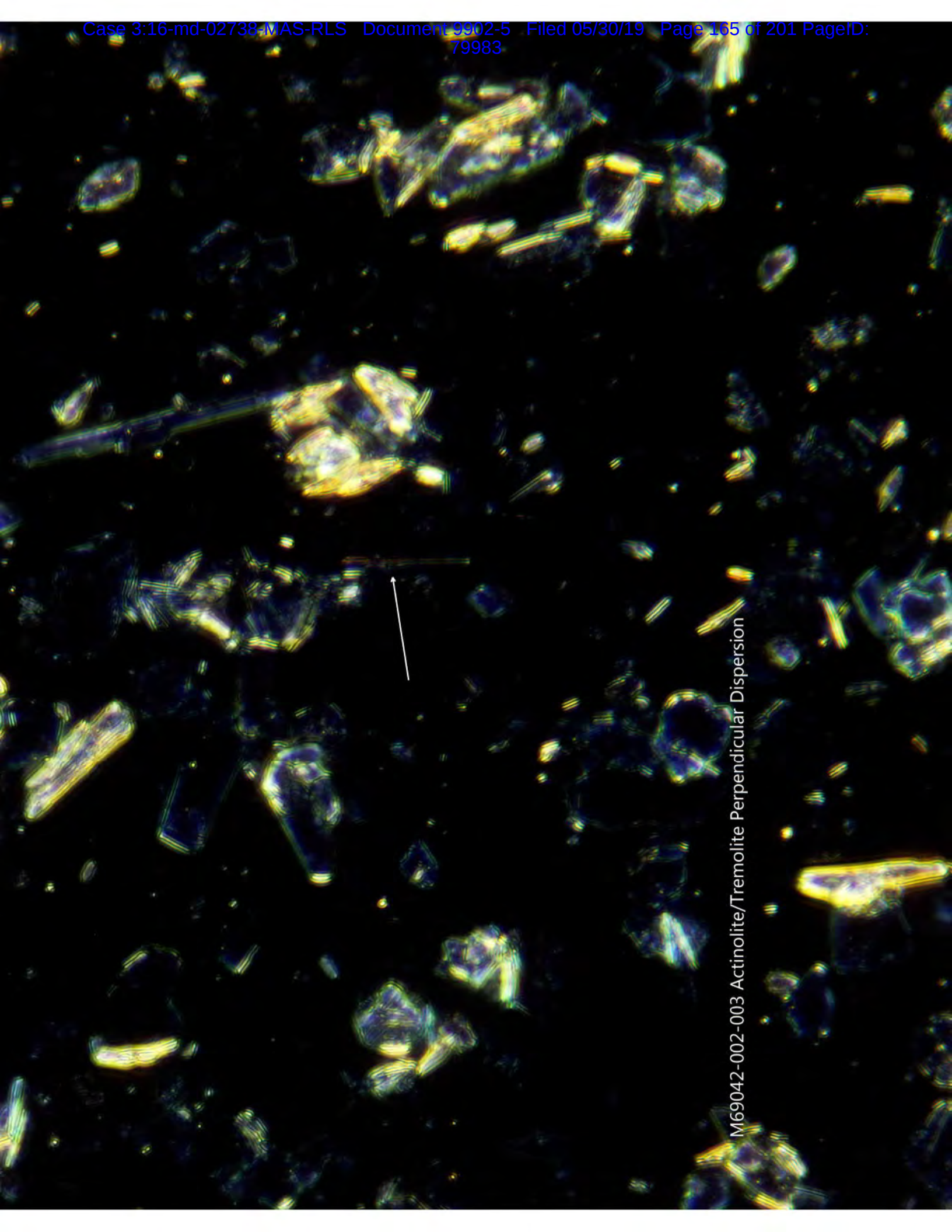


M69042-002-002 Actinolite/Tremolite Crossed Polars

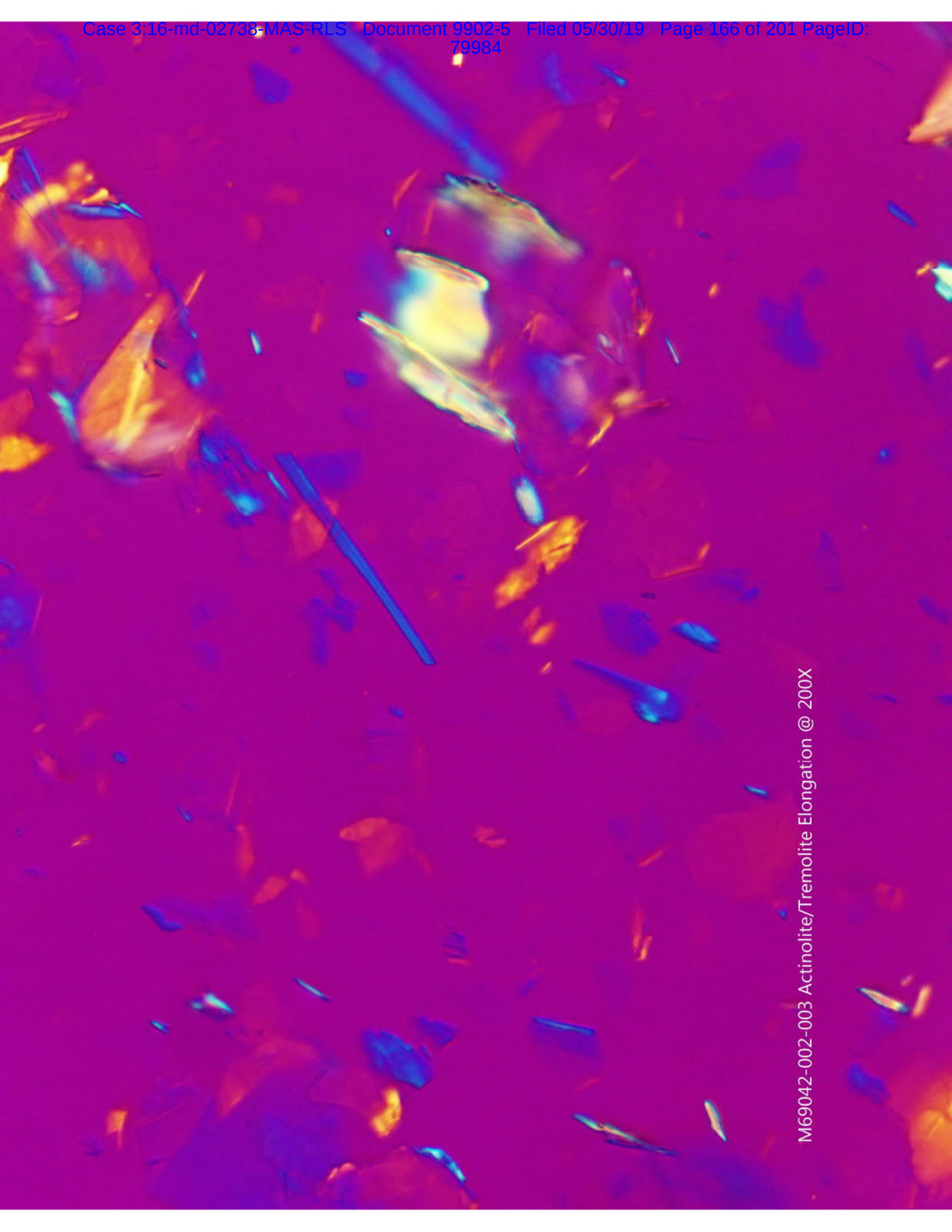


84.9um

M69042-002-003 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



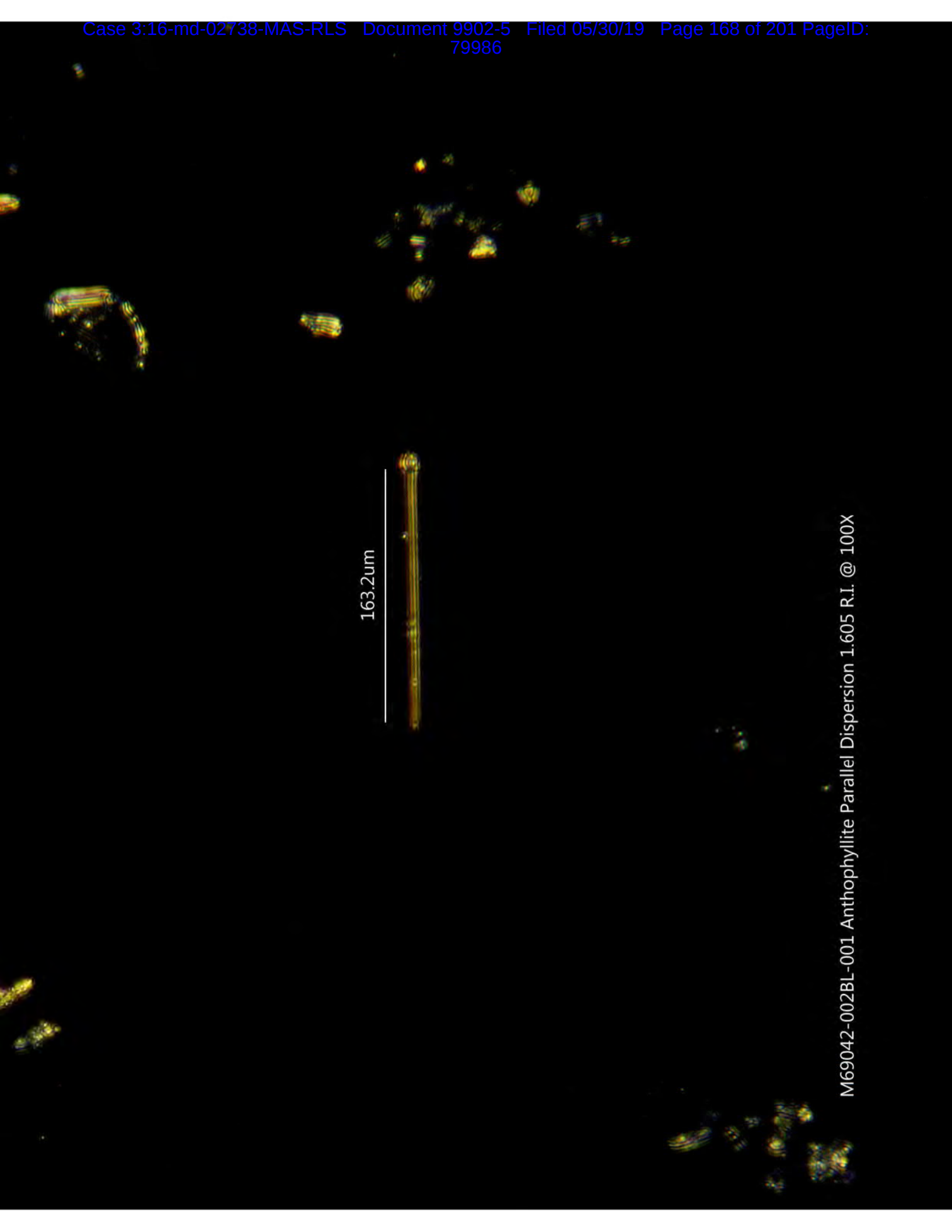
M69042-002-003 Actinolite/Tremolite Perpendicular Dispersion



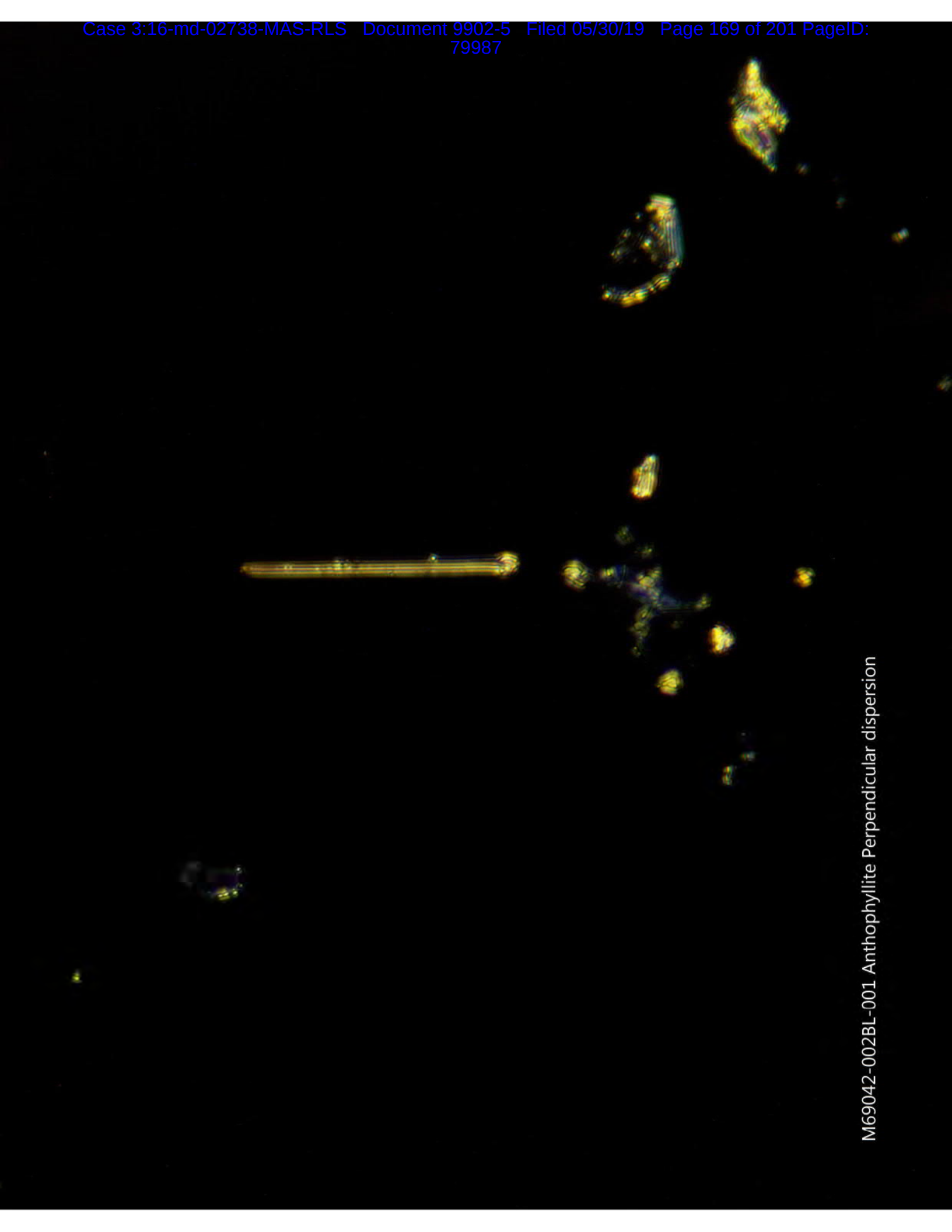
M69042-002-003 Actinolite/Tremolite Elongation @ 200X



M69042-002-003 Actinolite/Tremolite Crossed Polars



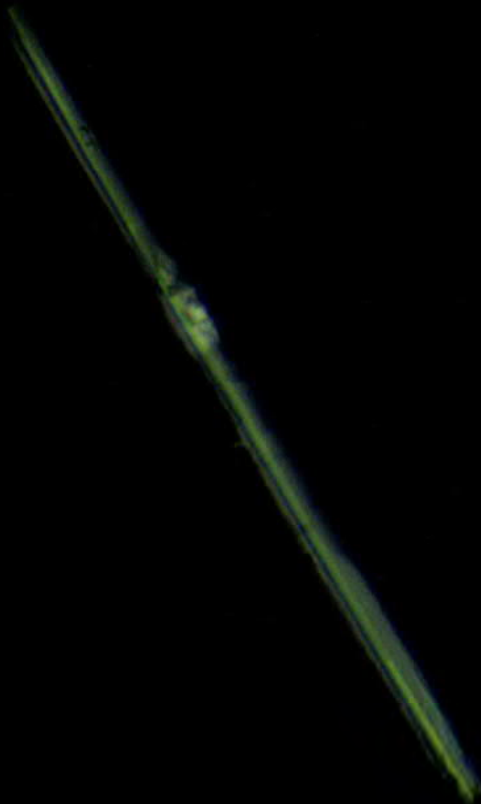
M69042-002BL-001 Anthophyllite Parallel Dispersion 1.605 R.I. @ 100X



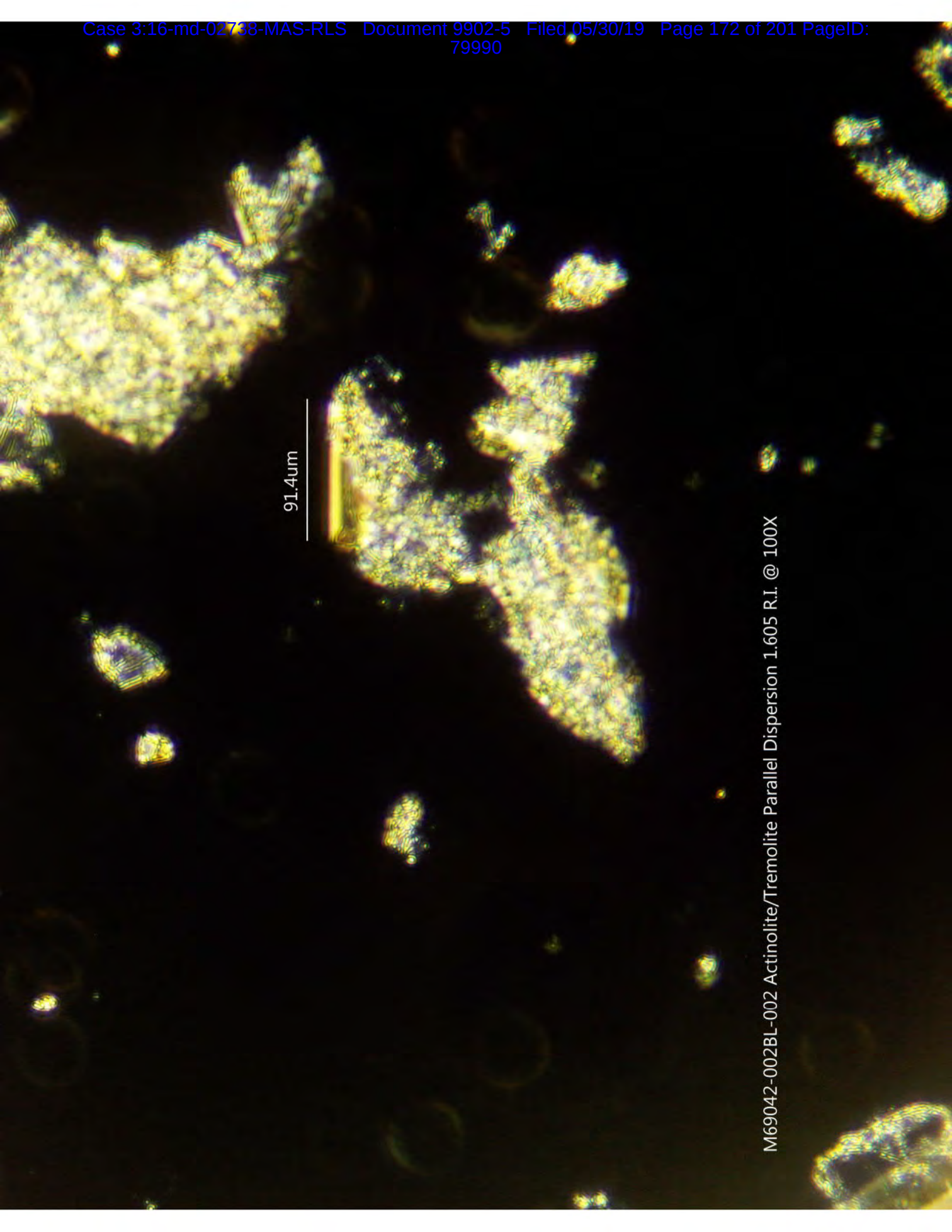
M69042-002BL-001 Anthophyllite Perpendicular dispersion



M69042-002BL-001 Anthophyllite Elongation @ 200X

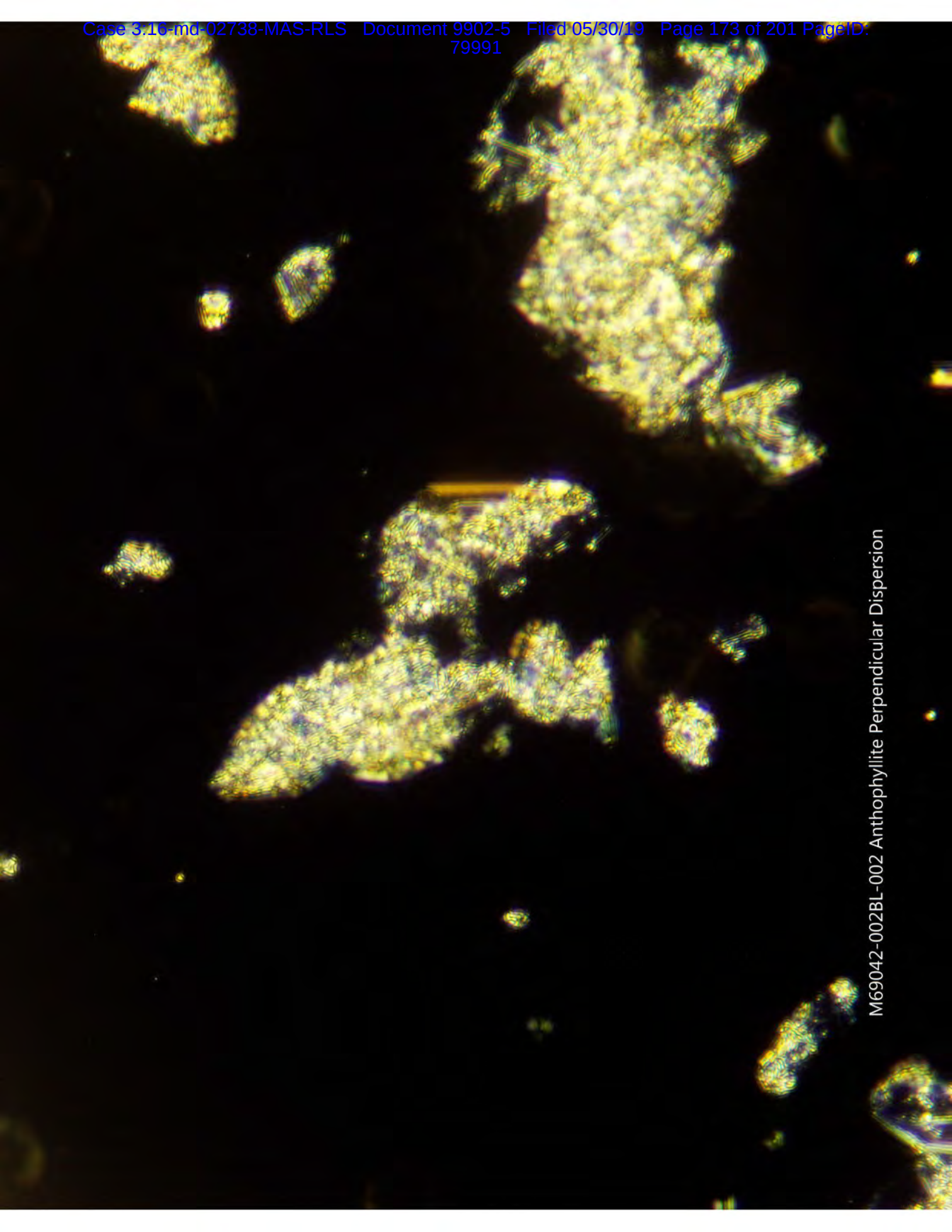


M69042-002BL-001 Anthophyllite Crossed Polars

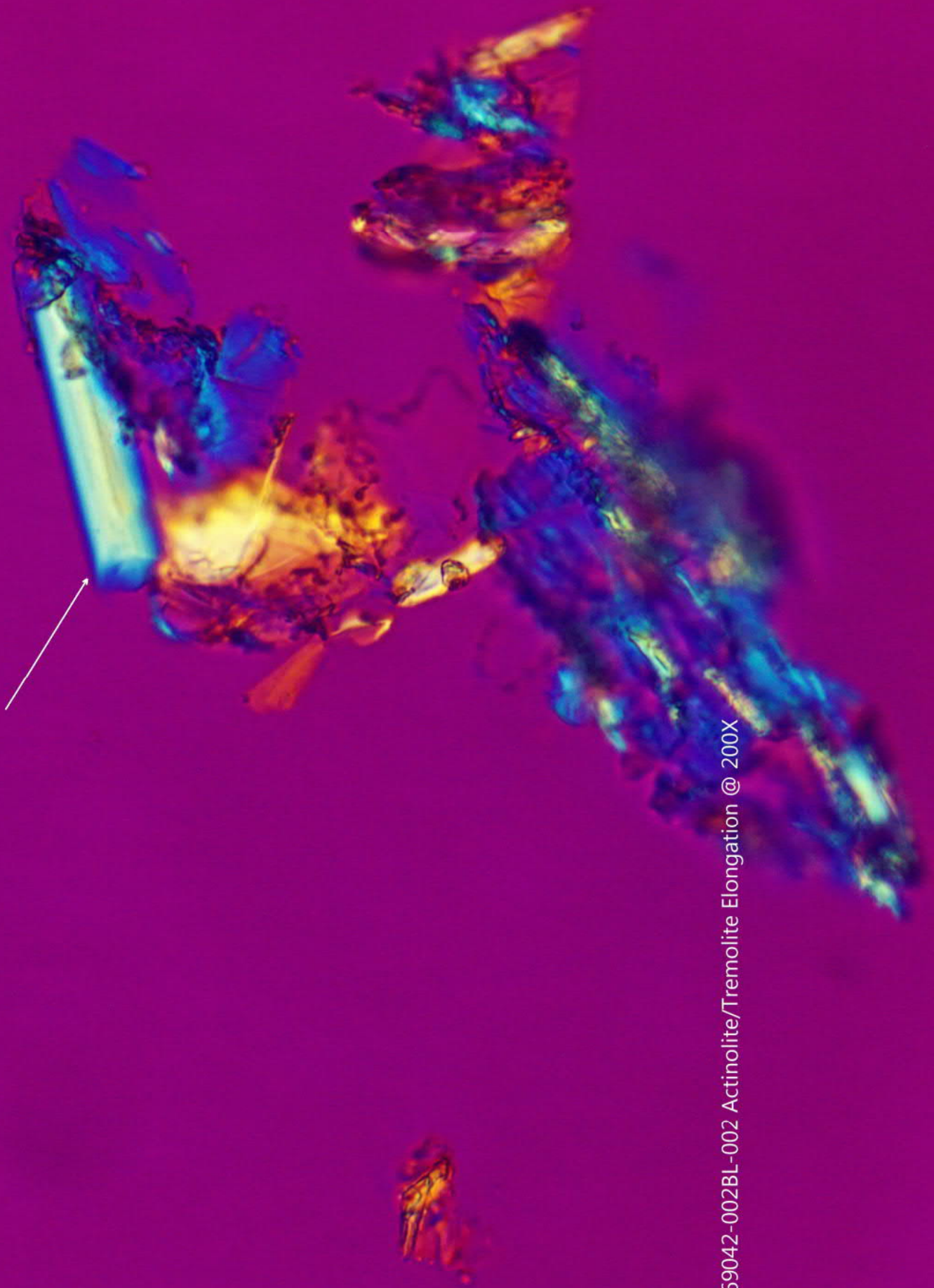


91.4um

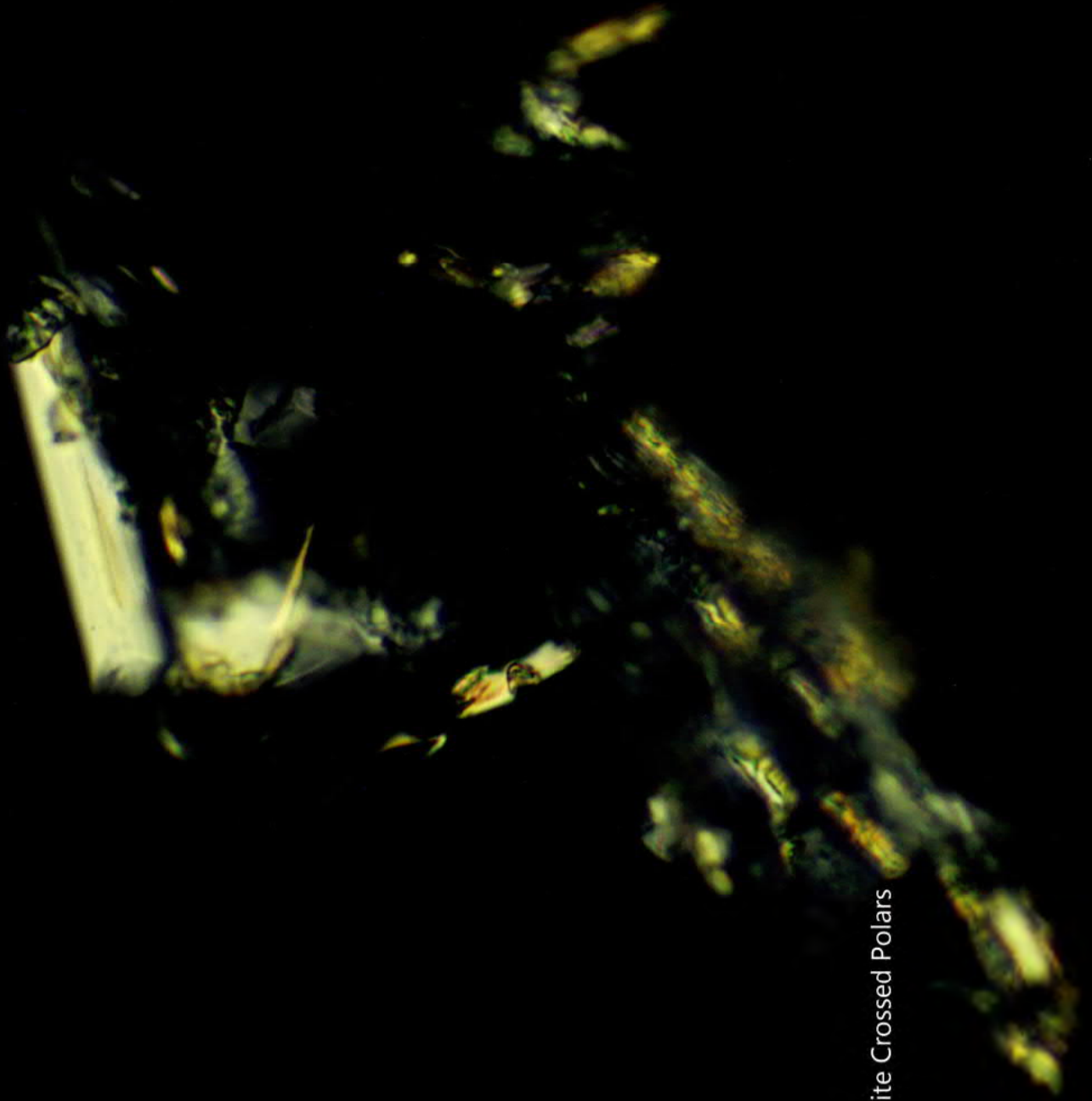
M69042-002BL-002 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X



M69042-002BL-002 Anthophyllite Perpendicular Dispersion



M69042-002BL-002 Actinolite/Tremolite Elongation @ 200X



M69042-002BL-002 Actinolite/Tremolite Crossed Polars

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69042-002		Grid Box #	8621	No. of Grids Counted	2
Analyst:	Anthony Keeton			Length	Width	G. O. Area
Date of Analysis	9/26/2018 - 9/28/2018 &10/27/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02000			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	12%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	B2-B6							
NSD	B7							
1	B8	Bundle	Anthophyllite	35.4	1.8	19.7	X	X
2		Bundle	Anthophyllite	12.4	1.1	11.3	X	X
NSD	B9							
NSD	B10							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
3	E1	Bundle	Anthophyllite	6.4	1.1	5.8	X	X
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
4	E9	Bundle	Anthophyllite	6	0.7	8.6	X	X
NSD	E10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
5	H7	Bundle	Anthophyllite	34.5	1.1	31.4	X	X
NSD	H8							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69042-002		Grid Box #	8621	No. of Grids Counted	2
Analyst:	Anthony Keeton			Length	Width	G. O. Area
Date of Analysis	9/26/2018 - 9/28/2018 &10/27/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02000			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	12%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm ²			1.103

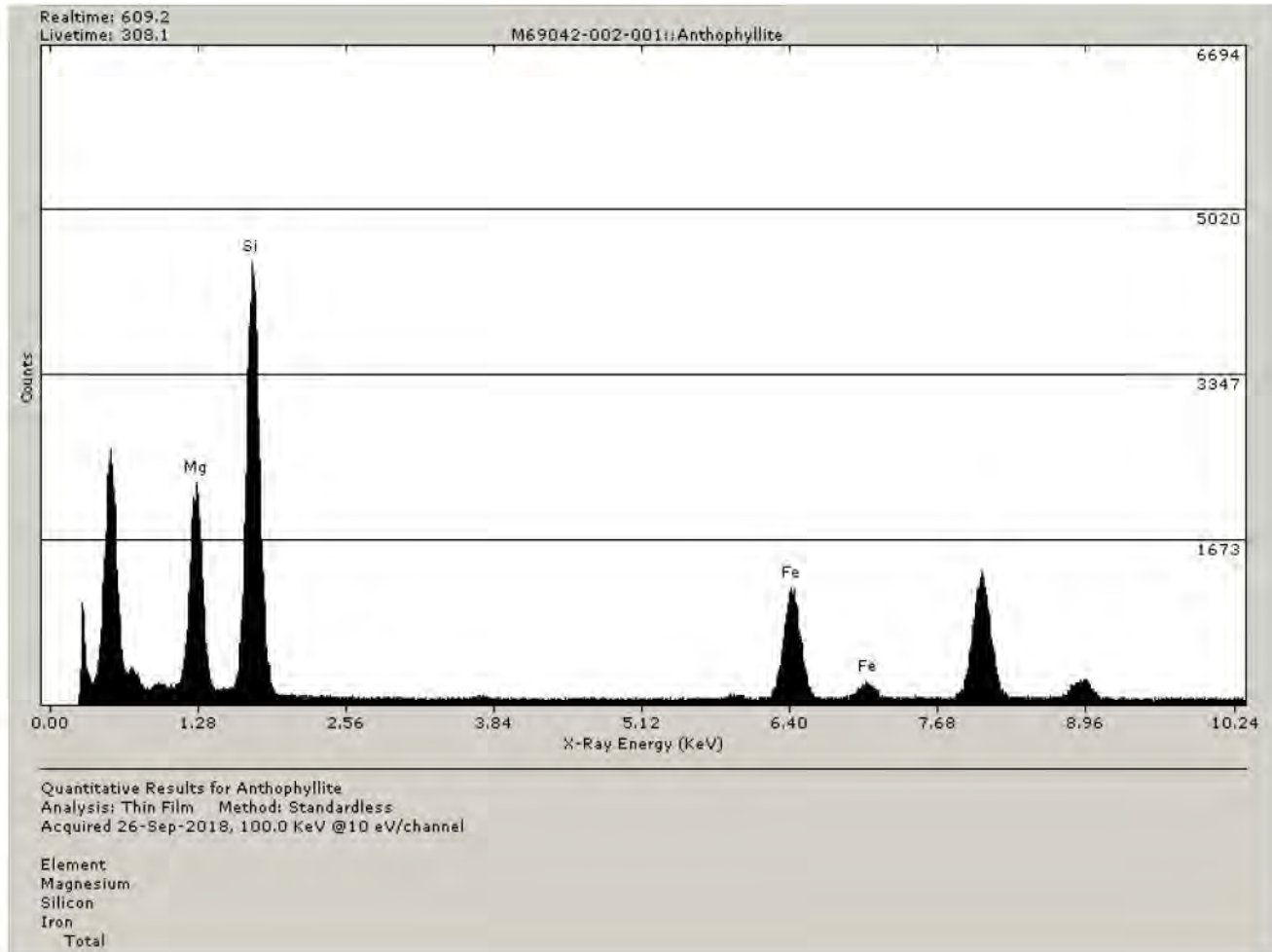
Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	H9							
NSD	B3-B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B10							
6	C1	Bundle	Anthophyllite	11.5	1.2	9.6	X	X
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	G1							
NSD	G2							
7	G3	Bundle	Anthophyllite	11.5	1	11.5	X	X
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							
NSD	H9							
NSD	H10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69042-002		Grid Box #	8621	No. of Grids Counted	2
Analyst:	Anthony Keeton			Length	Width	G. O. Area
Date of Analysis	9/26/2018 - 9/28/2018 &10/27/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02000			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	12%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	I4							

	Sample Wt.	
Org. Sample Wt.	Post HL Separation	
0.02000	0.02000	g
Percent of Orig. Post Separation	100	(%)
Wt. Of Sample Analyzed	0.00010965	g
Filter size	201.1	mm ²
Number of Structures Counted	7	Str.
Structures per Gram of Sample	6.38E+04	Str./g

Detection Limit	9.12E+03	Str./g
Analytical Sensitivity	9.12E+03	Str./g





2 4520

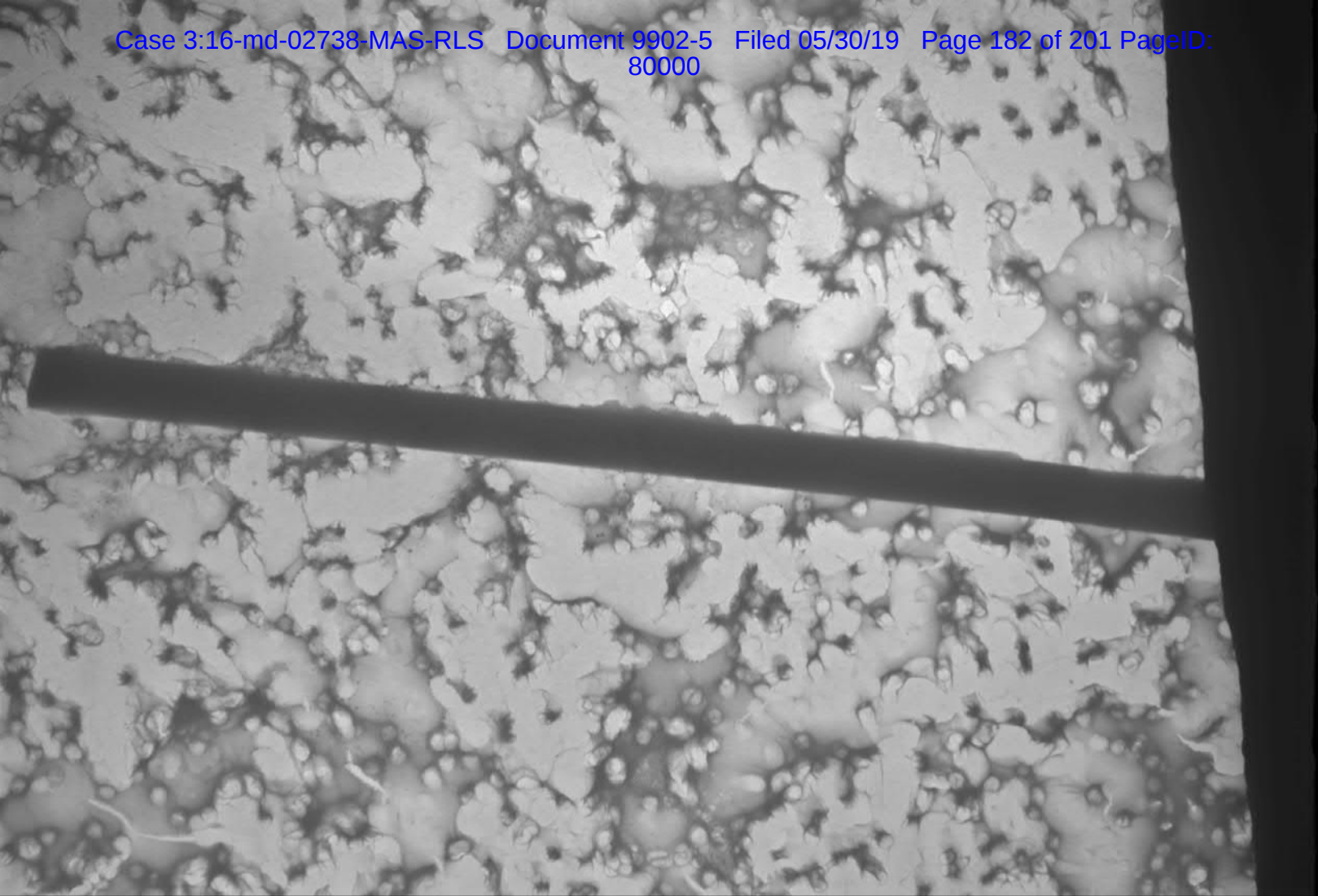
M69042-002-001 Anthophyllite Diffraction - 1 @ 50cm

9/26/2018

2 4521

M69042-002-001 Anthophyllite Diffraction - 2 @ 50cm

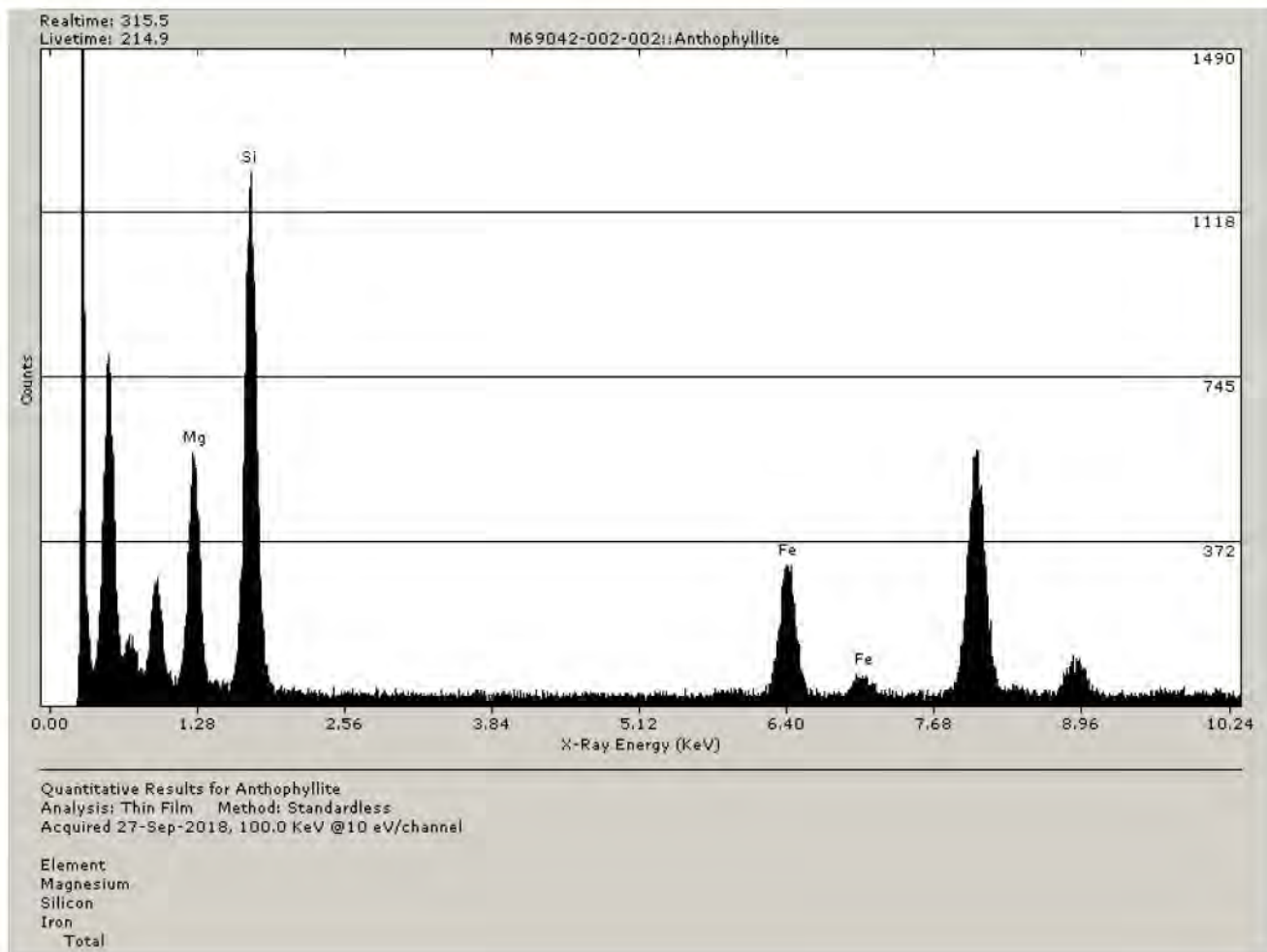
9/26/2018

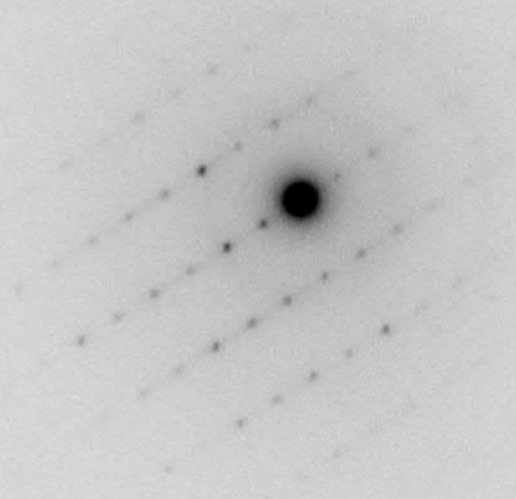


2 4524

M69042-002-001 Anthophyllite (35.4 um x 1.8 um)

9/26/2018

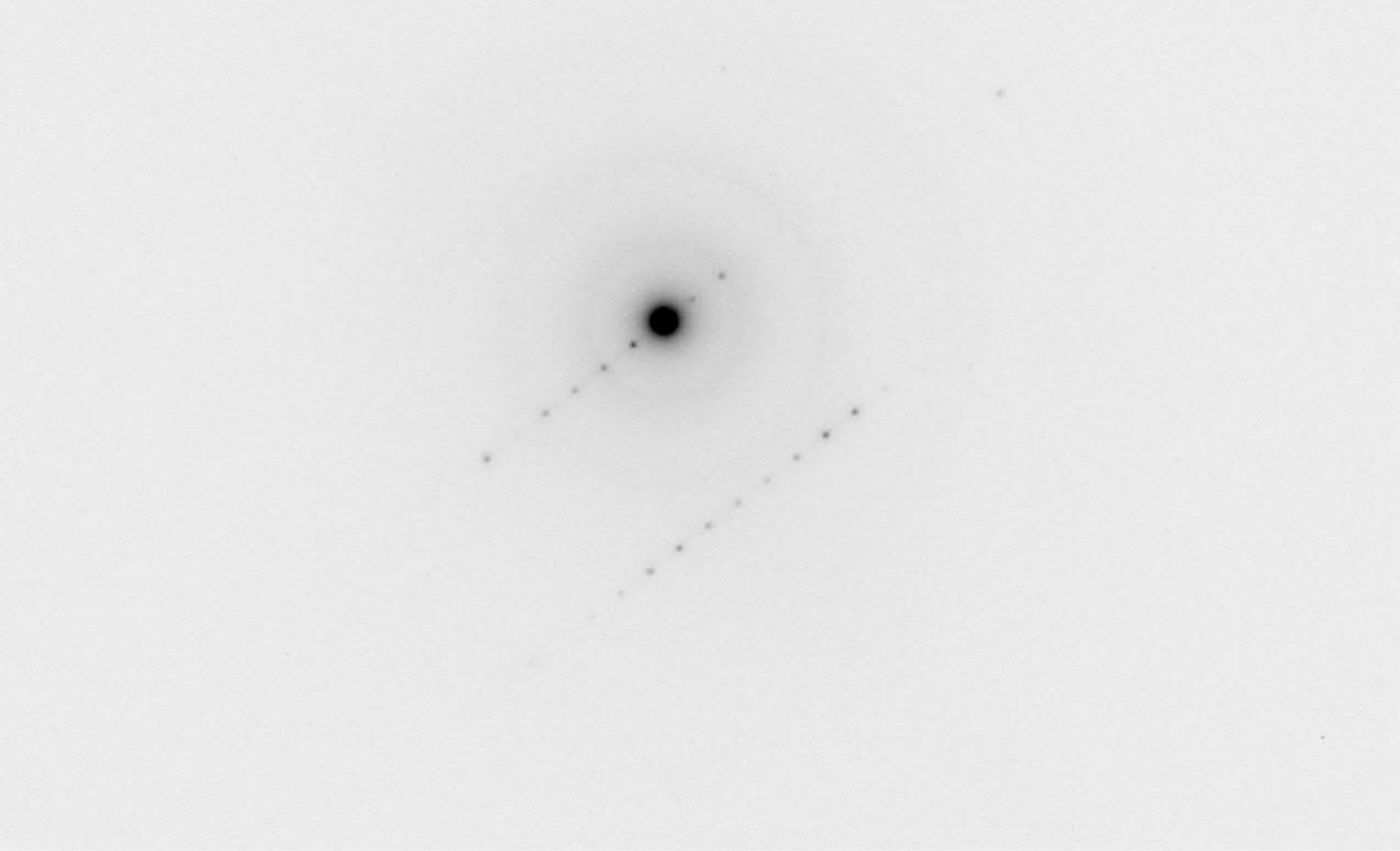




2 4531

M69042-002-002 Anthophyllite Diffraction - 1 @ 50cm

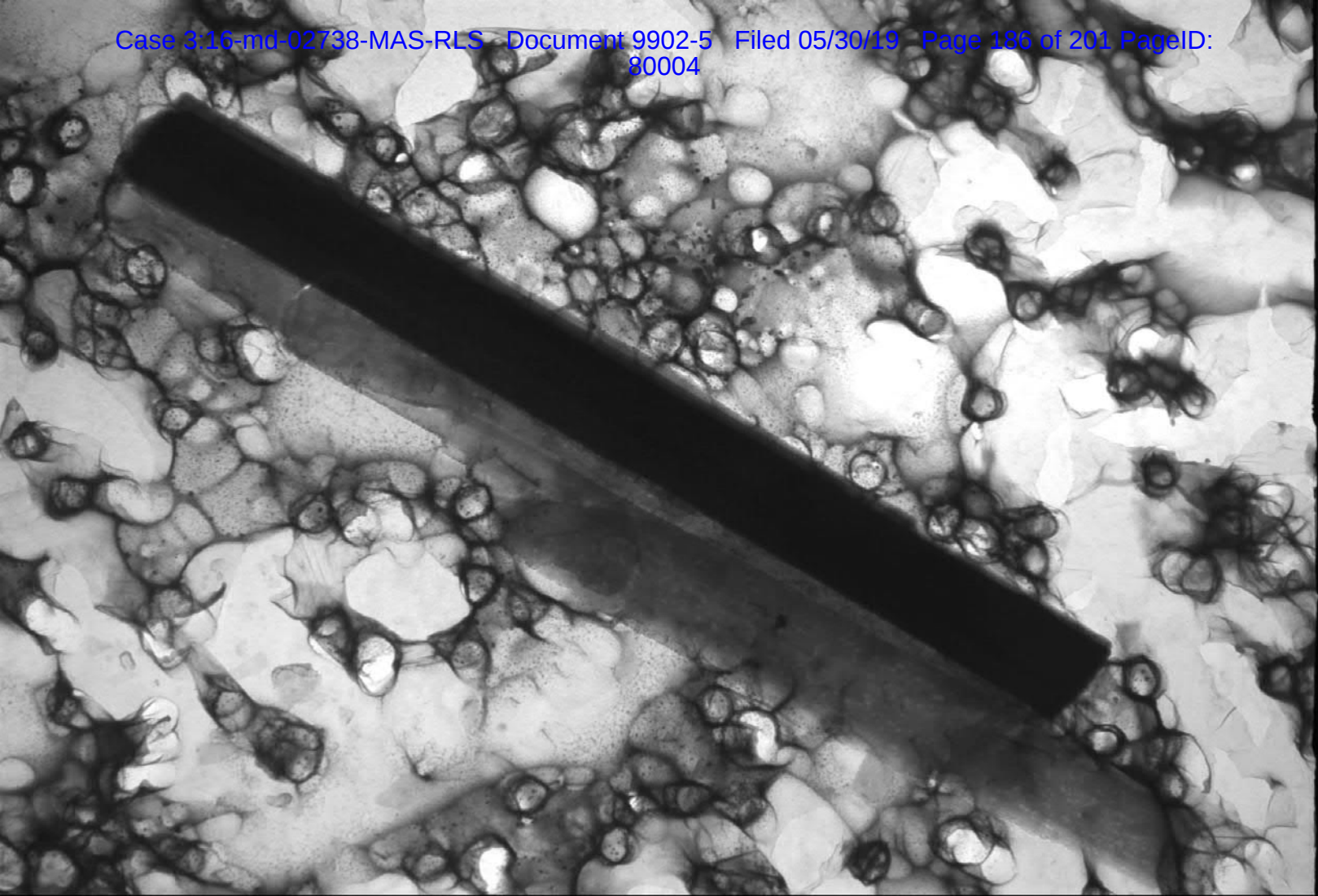
9/27/2018



2 4537

M69042-002-002 Anthophyllite Diffraction - 2 @ 50cm

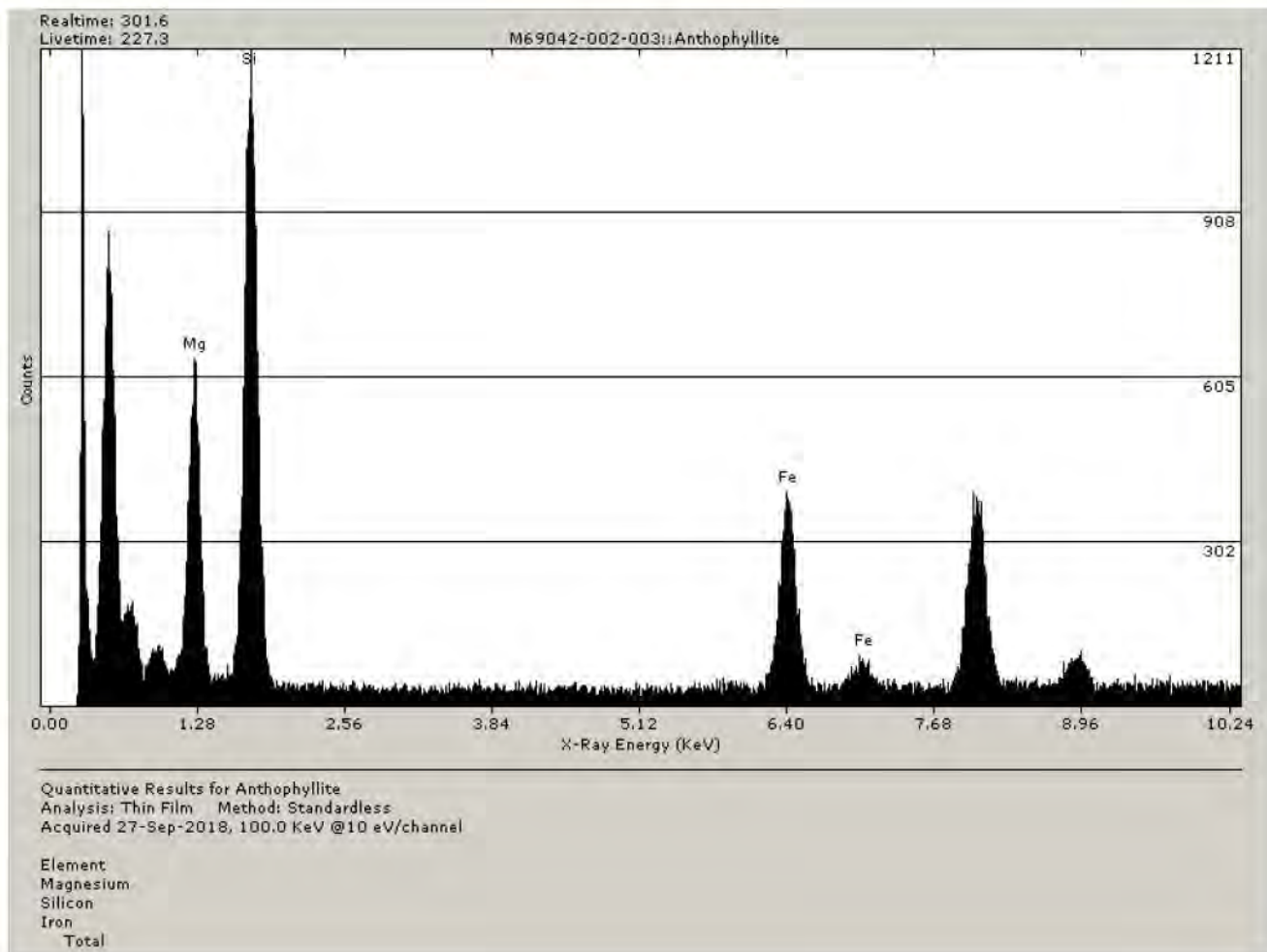
9/27/2018



2 4533

M69042-002-002 Anthophyllite (12.4 um x 1.1 um)

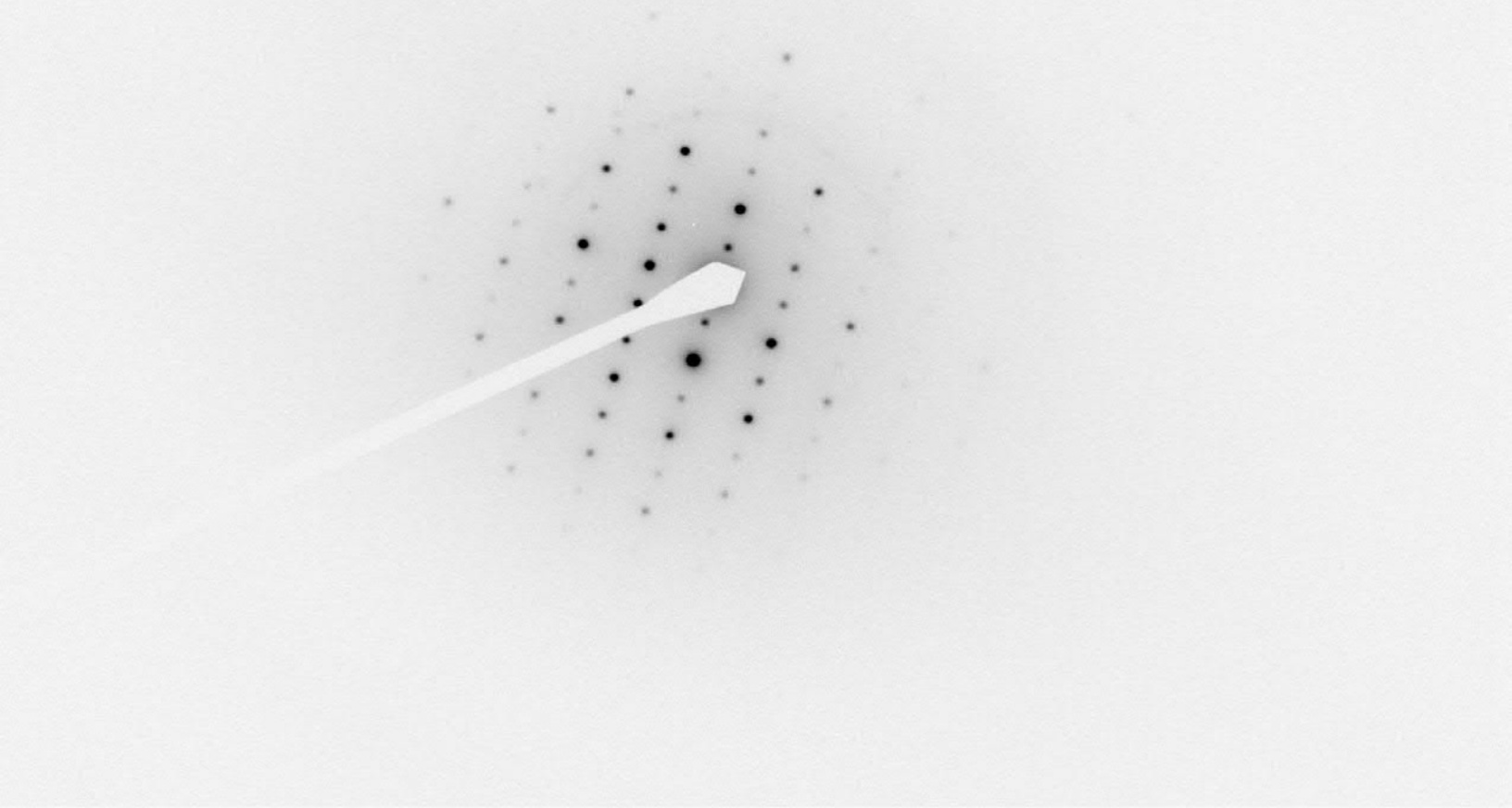
9/27/2018



2 4539

M69042-002-003 Anthophyllite Diffraction - 1 @ 50cm

9/27/2018



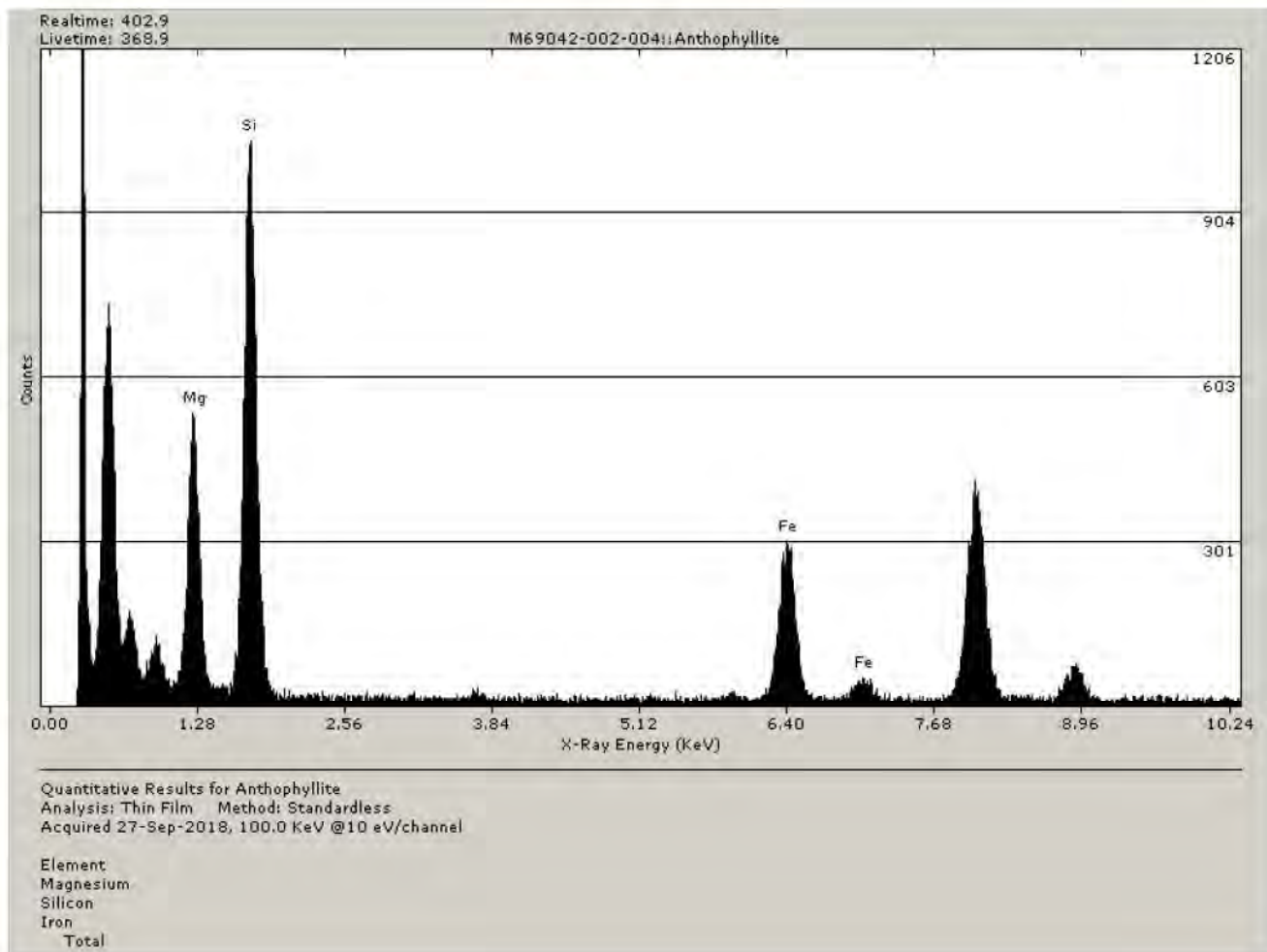
2 4797

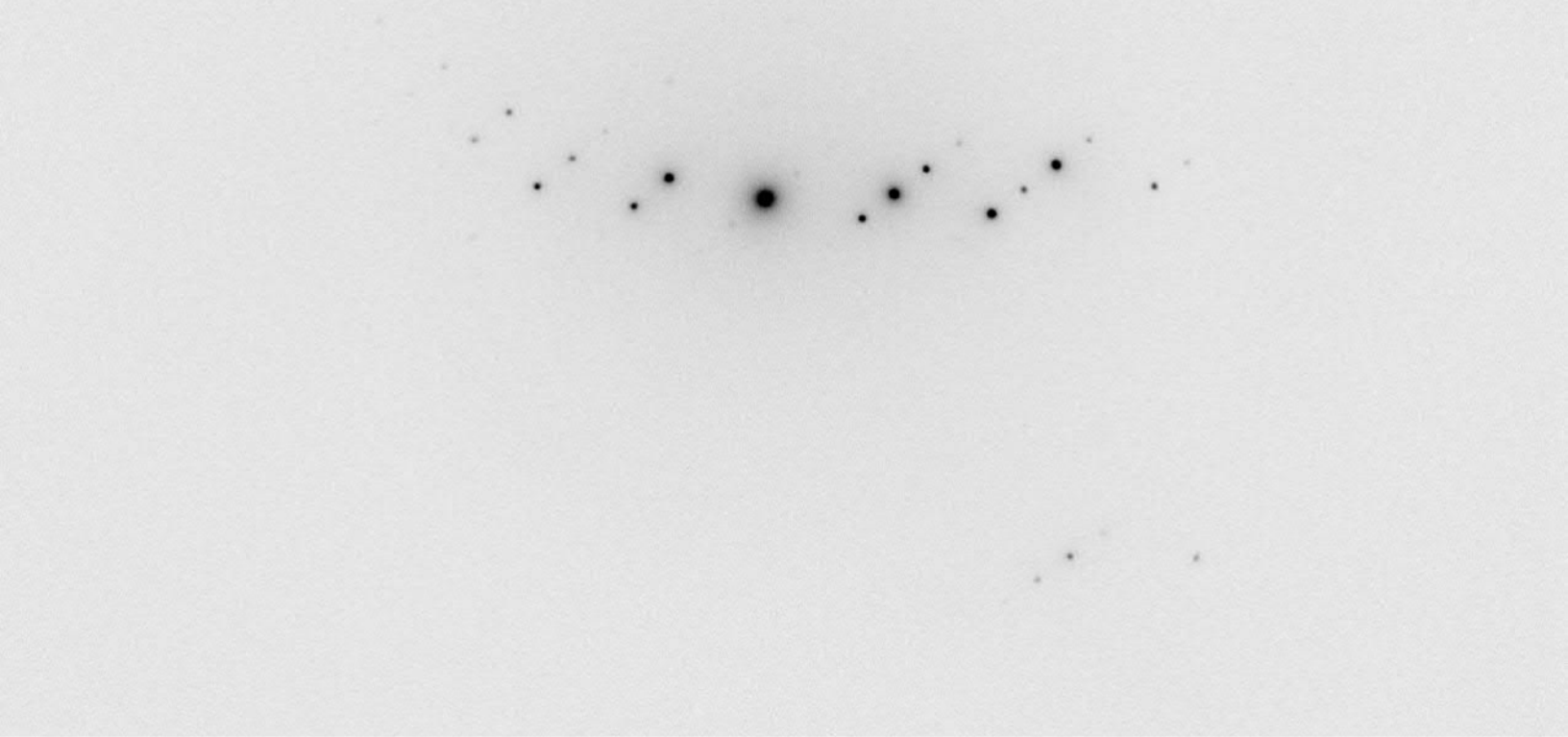
M68042-002-003 Anthophyllite Diffraction - 2 @ 50cm

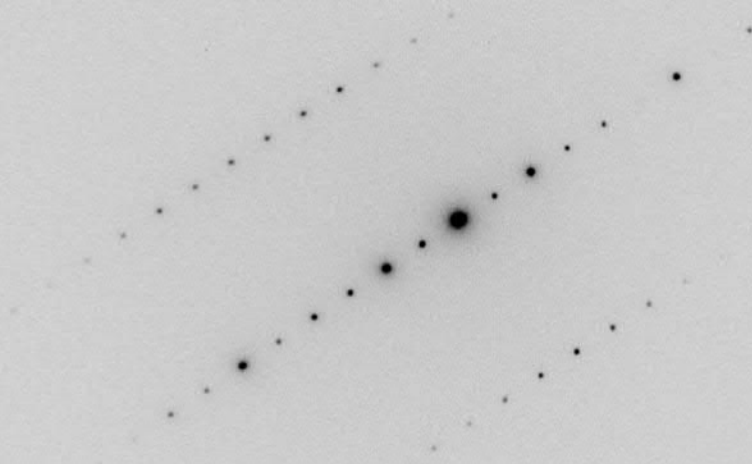
10/27/2018

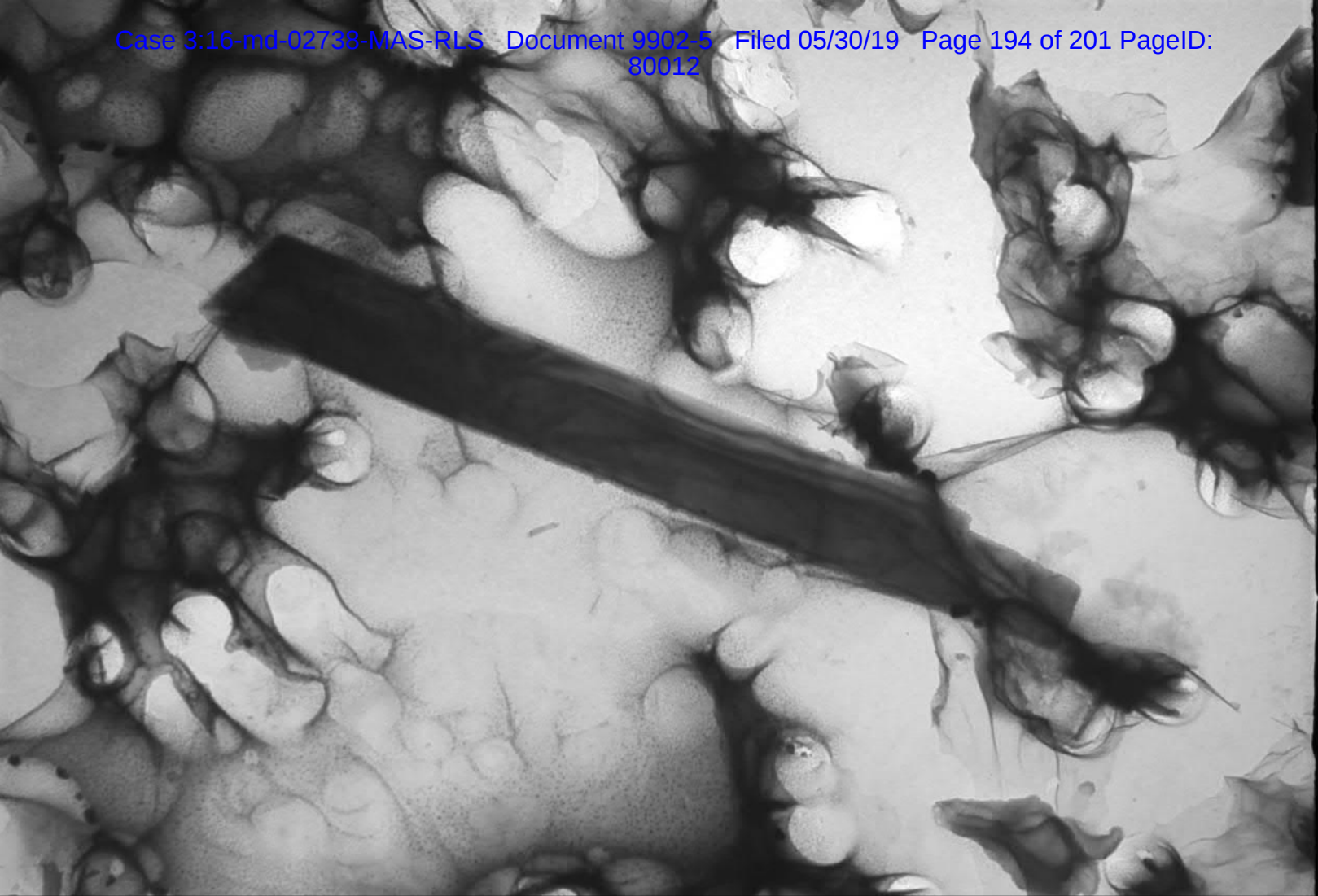


2 4541 M69042-002-003 Anthophyllite (6.4 um x 1.1 um) 9/27/2018





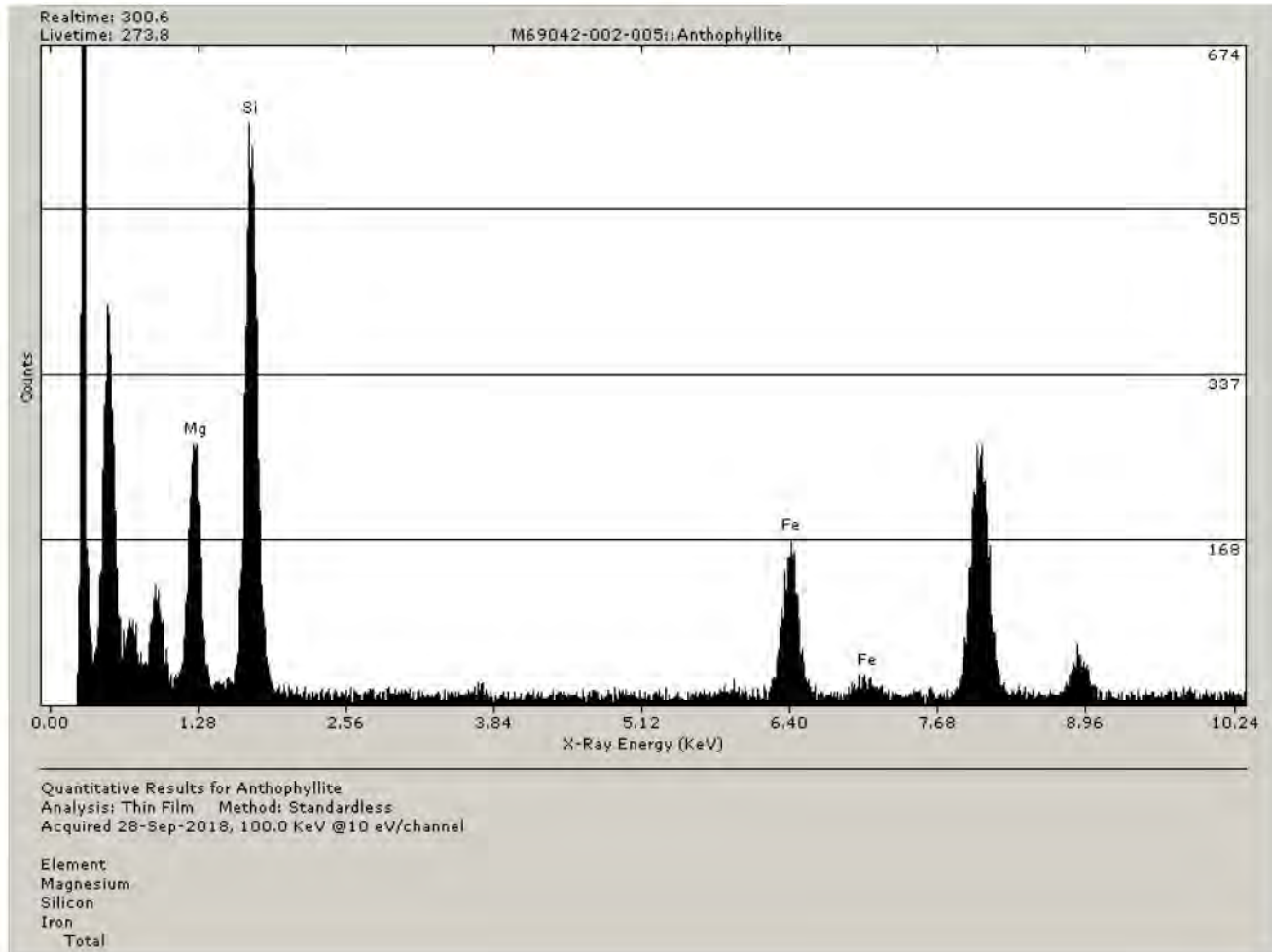


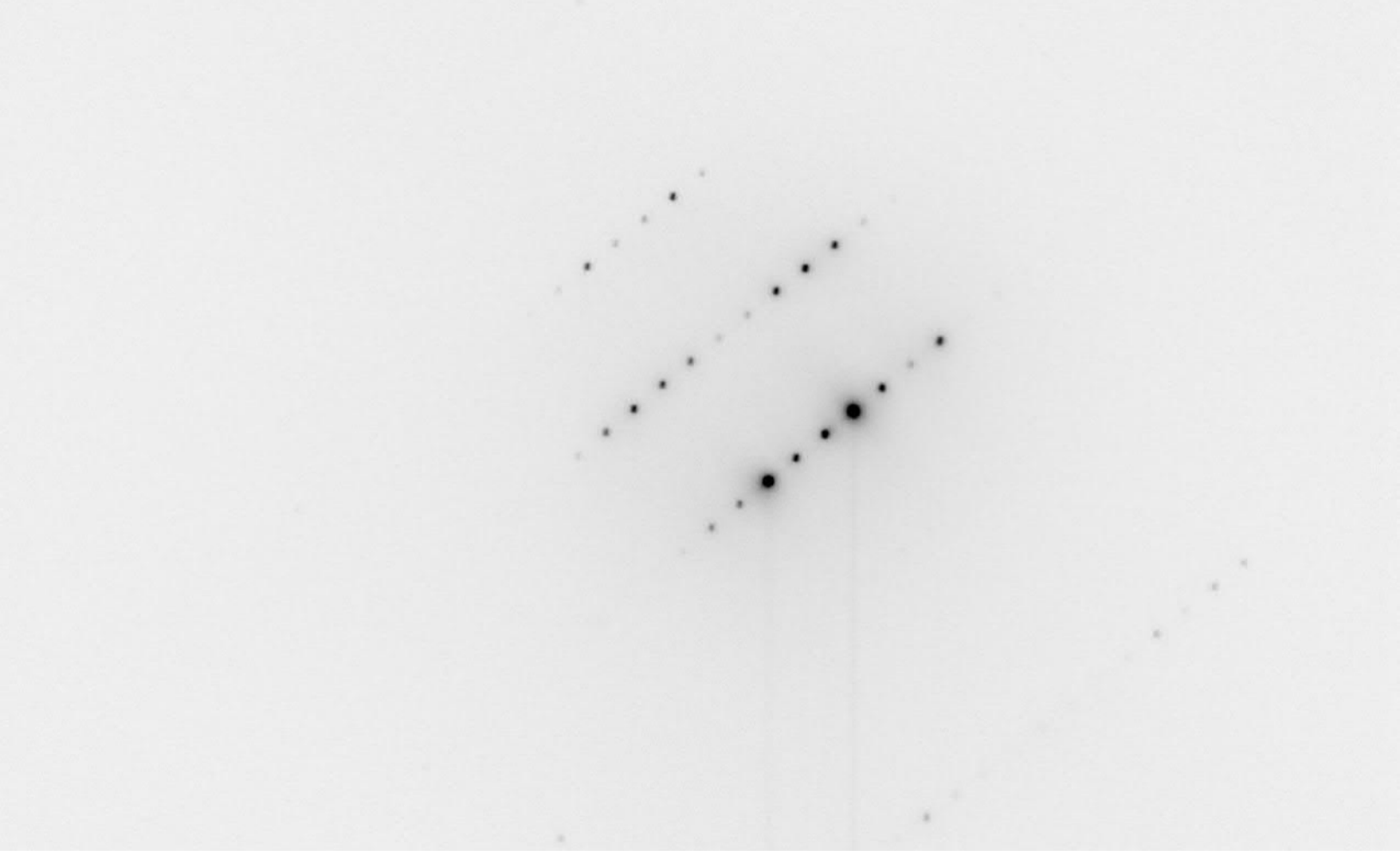


2 4546

M69042-002-004 Anthophyllite (6.0 um x 0.7 um)

9/27/2018

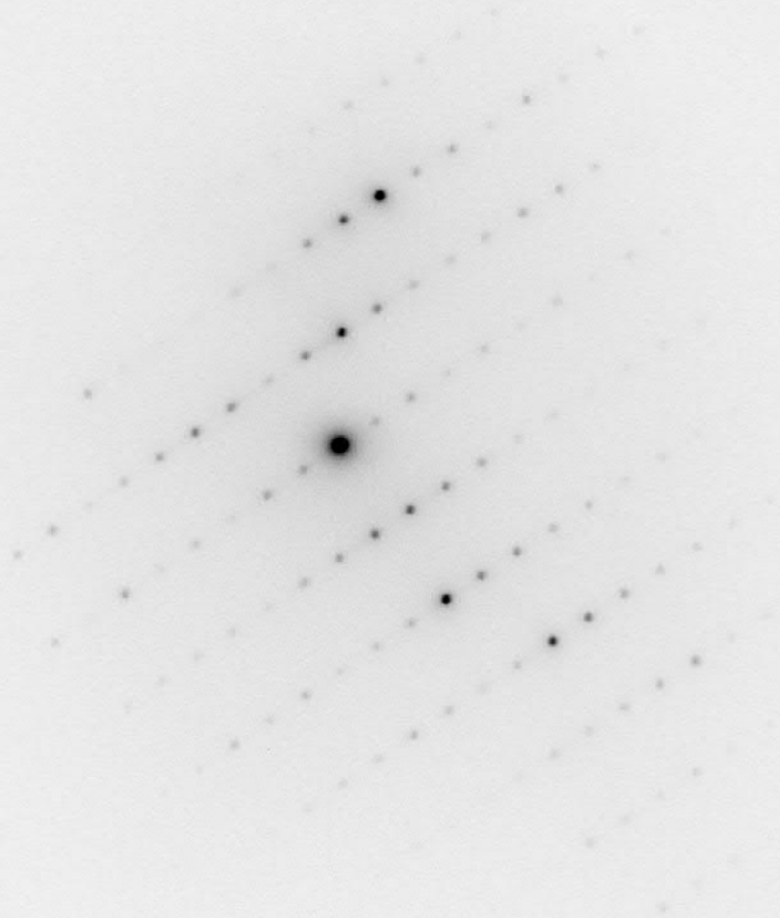




2 4547

M69042-002-005 Anthophyllite Diffraction - 1 @ 50cm

9/28/2018



2 4556

M69042-002-005 Anthophyllite Diffraction - 2 @ 50cm

9/28/2018



2 4553

M69042-002-005 Anthophyllite (34.5 um x 1.1 um)

9/28/2018

